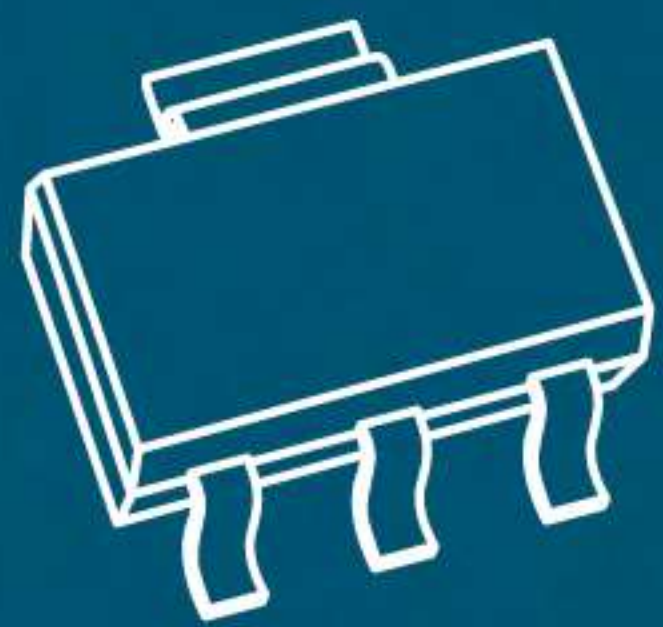
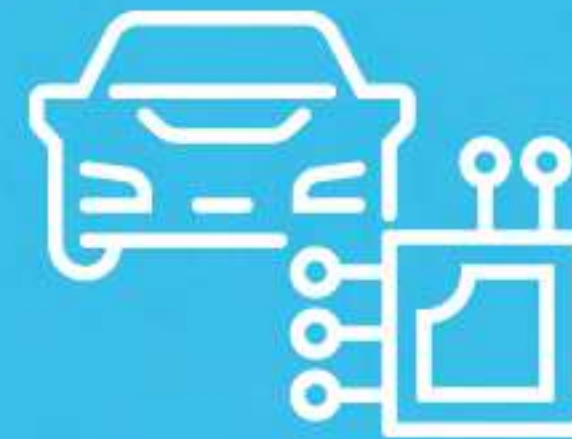




# FUZETEC



POWER  
MOSFET



## Fuzetec Technology

2024 MOSFETs Product Catalog

[www.fuzetec.com](http://www.fuzetec.com)

# MOSFETs Product

Package Type		Voltage Level (Vds)	Page
SO Package	SOP8	-150~100V	P.6
	TSSOP8	20V	P.8
	TSOP6	-30~100V	P.9
SOT Package	SOT223	-100~200V	P.10
	SOT89	-40~100V	P.10
	SOT23	-100~100V	P.11
	SOT23S	-30~60V	P.12
	SOT323	20V	P.12
	SOT523	20V	P.12
QFN/DFN Package	PRPAK5x6	-100~150V	P.13
	PRPAK3x3	-150~100V	P.16
	DFN2x2	-30~30V	P.18
	DFN2x3	20V	P.18
	DFN3.3x3.3	-30~75V	P.18
	DFN3x3	12~30V	P.18
CSP Package	CSP	20~24V	P.19
TO Package	TO263	-100~200V	P.20
	TO252	-100~200V	P.21
	TO2524L	30~100V	P.23
	TO220	-100~200V	P.24
	TO220F	-60~100V	P.25
	TO251	-60~100V	P.26
	TO247	100V	P.27
	TOLL	40~100V	P.27
Glossary of Terms			P.28



# Fuzetec Power MOSFETs

The Fuzetec MOSFET portfolio offers cost-effective solutions with wide availability and a proven track record for quality. This range encompasses up to 200 V voltage classes and features single, dual, complementary, and asymmetric N or P channel Power MOSFETs.

These MOSFET components are available in various package options, including SO/SOIC (Small Outline Integrated Circuit) Package, SOT (Small Outline Transistor) Package, DFN (Dual Flat No-Lead) Package and TO (Transistor Outline)

# Power Semiconductors

## MOSFET



Fuzetec is the premier choice for high-quality, cutting-edge circuit protection solutions, ensuring optimal performance and safety for electronic devices in any application. Our commitment is to continuously push the boundaries of innovation, delivering exceptional products and services to all customers.

Renowned for our expertise in circuit protection technology and stringent quality standards, Fuzetec offers a full range of Over-Current, Over-Voltage, Hybrid circuit protection, Power Management, and supporting solutions you can rely on.

## MOSFETs Product Overview

01

### Low Voltage

Low Voltage MOSFET  $\leq 40V$   
Wearable Devices, Battery, Laptop, PD  
Charger, Adaptor, and Network Devices

02

### Mid Voltage

Mid Voltage MOSFET 40V ~ 200V  
UPS, Motor Controller, Lighting, E-Bike,  
E-Motor, Synchronous Rectifier, and Home  
Appliances

03

### High Voltage

High Voltage MOSFET 200V ~ 1000V  
High Power SMPS, Adaptor, PFC, TV Display  
BMS Charger, and Public Lighting

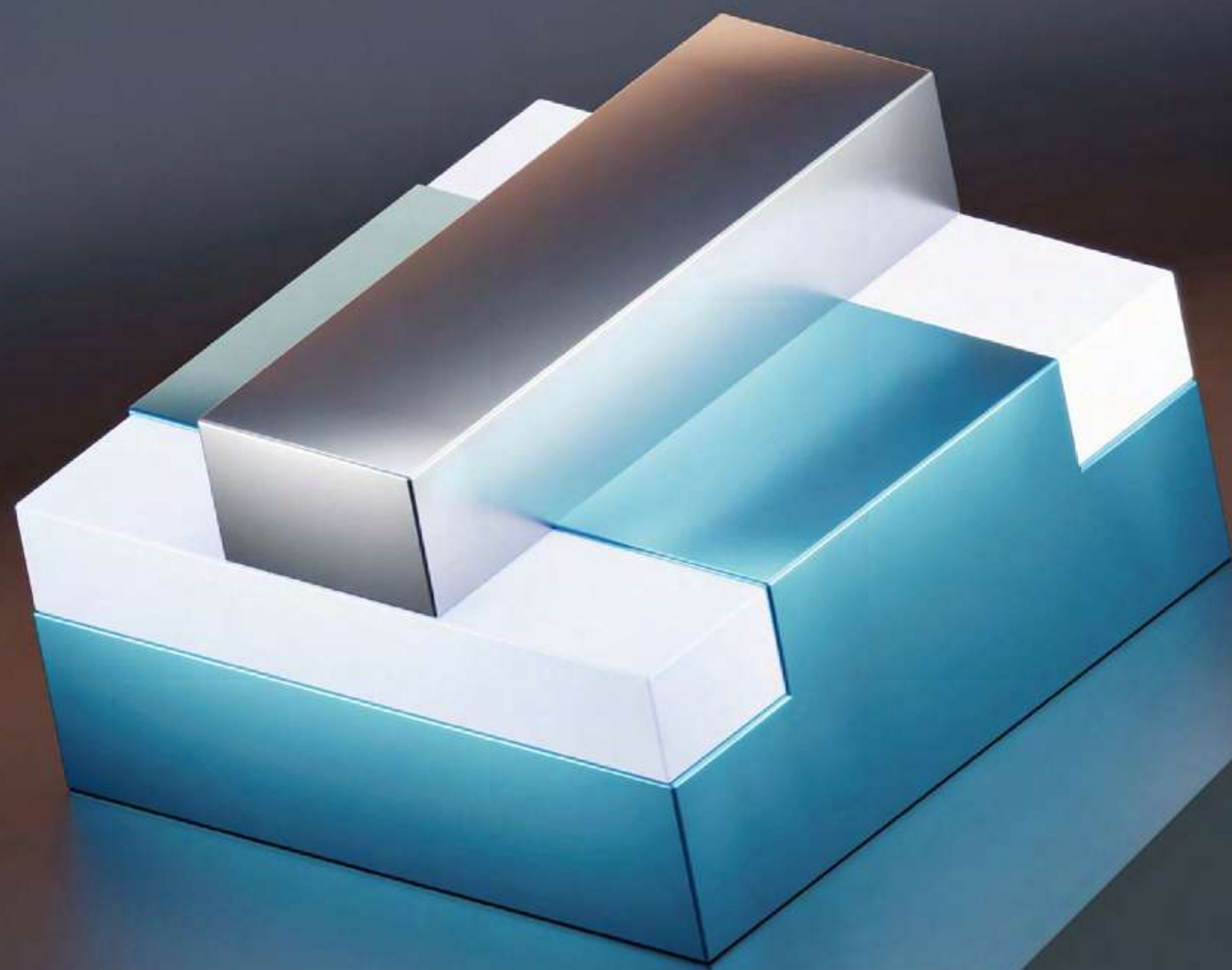
MOSFETs, or Metal-Oxide-Semiconductor Field-Effect Transistors, offer a multitude of advantages that make them indispensable in the world of electronics:

- |                                 |                                       |
|---------------------------------|---------------------------------------|
| <b>1. Low Power Consumption</b> | <b>4. Voltage-Controlled Device</b>   |
| <b>2. Fast Switching Speed</b>  | <b>5. High Efficiency</b>             |
| <b>3. Compact Size:</b>         | <b>6. Versatility in Applications</b> |

These advantages collectively underscore the significance of MOSFETs in modern electronics, driving technological advancements and optimizing the performance of electronic devices and systems.

# List of Package Type

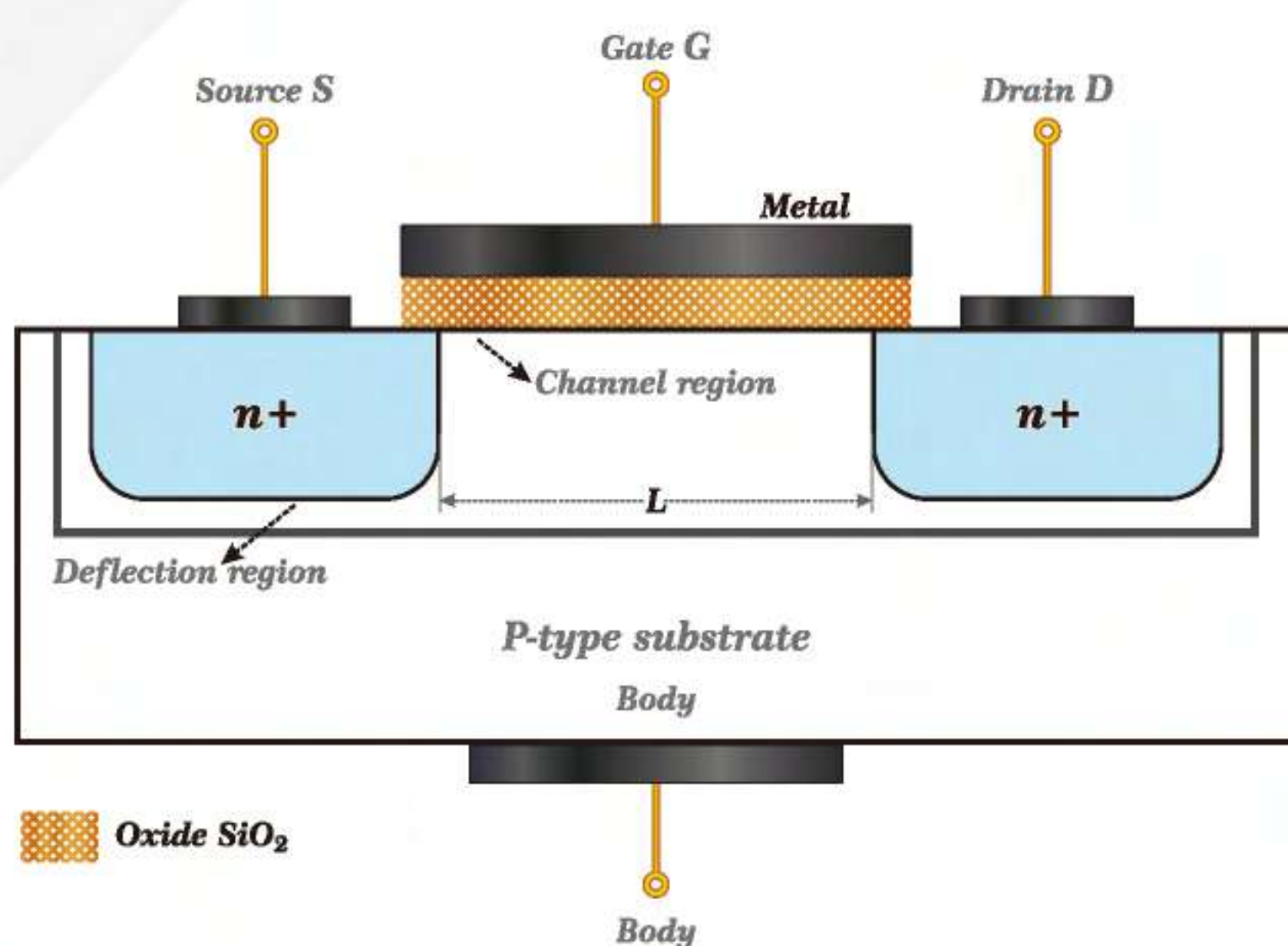
SO Package			SOT Package				
SOP8	TSSOP8	TSOP6	SOT223	SOT89	SOT23	SOT23S	SOT323
							
SOT Package	QFN/DFN Package						CSP Package
SOT523	PRPAK5X6	PRPAK3X3	DFN2X2	DFN2X3	DFN3.3X3.3	DFN3X3	CSP
							
TO Package							
TO263	TO252	TO2524L	TO220	TO220F	TO251	TO247	TOLL
							



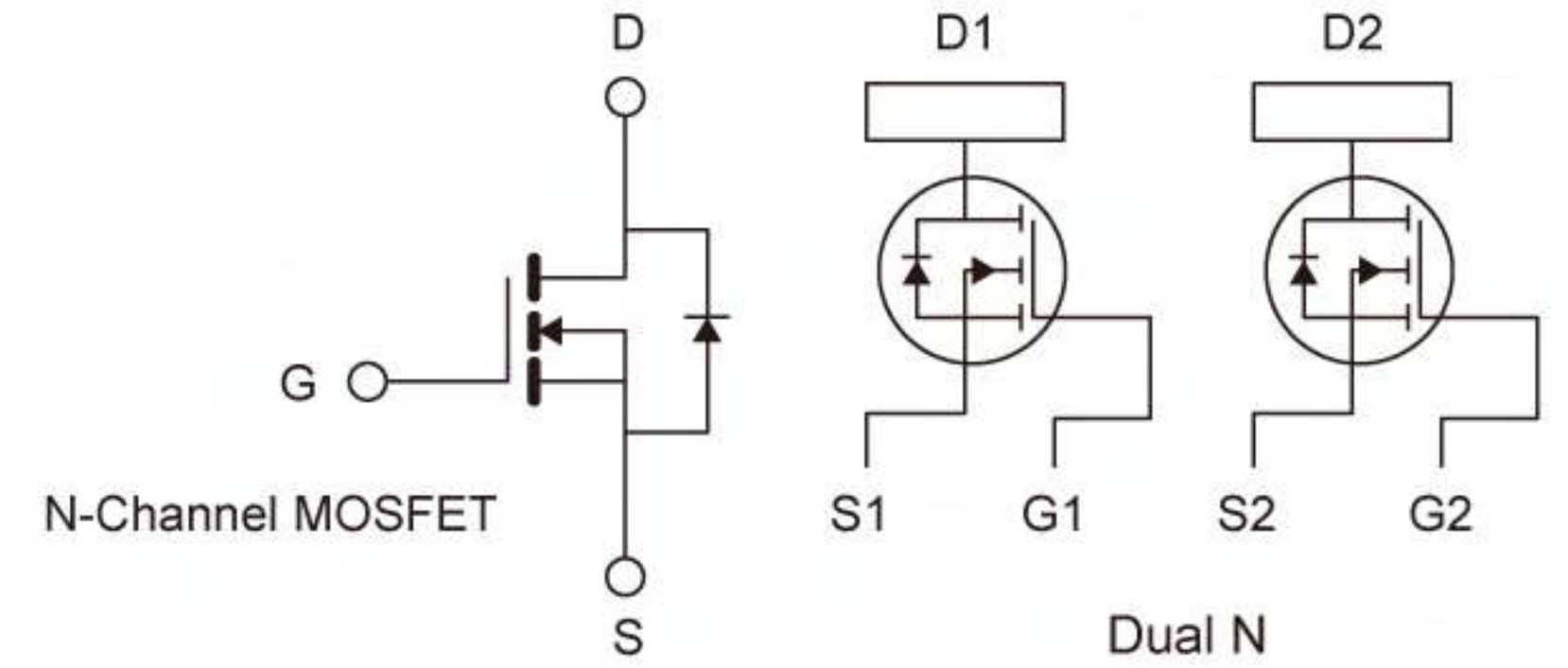
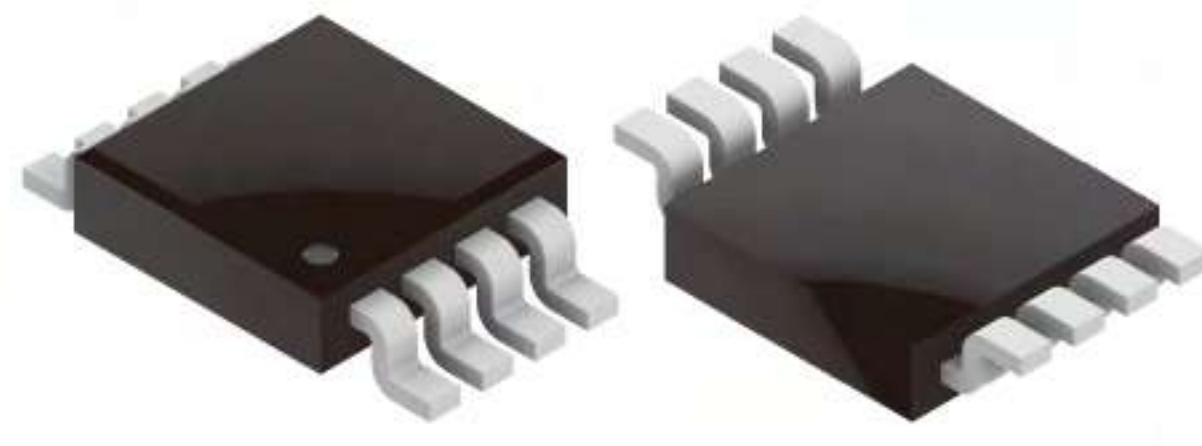
# Fuzetec MOSFETs

## Features

- Shield Gate Trench(SGT) MOSFET
- Optimized for Synchronous Rectification
- Low Input Capacitance
- Low Switching Charge
- Low Miller Capacitance
- Fully Characterized Capacitance & Avalanche
- Pb-Free & RoHS Compliant



# SOP8 Series



FUZETEC - SO Package

Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	I <sub>D</sub> (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FS0070030SN0180SZZ	•	S	N	30	±20	2.5	18	26	—	—	583	77	59	108	6	2.2	2	7	1.5
FS0100030SN0090SZZ	•	S	N	30	±20	2.5	9	14	—	—	1317	163	131	113	12.6	4.2	5.1	10.3	1.5
FS0130030SN0060SZZ	•	S	N	30	±20	2.5	6	9	—	—	2295	267	210	126	21	7	6.9	13	1.5
FS0060030SN0250SZZ	•	S	N	30	±20	2.5	25	38	—	—	416	62	51	123	4.9	1.5	1.85	6.2	1.5
FS0090030SN0120SZZ	•	S	N	30	±20	2.5	12	18	—	—	940	131	109	116	9.63	3.88	3.44	9	1.5
FS0150030SN0040SZZ	•	S	N	30	±20	2.5	4	6	—	—	3075	400	315	126	31.6	6.1	13.8	15	1.5
FS0240030SN0030SBZ	•	S	N	30	±20	2.5	3	3.8	—	—	4345	340	225	171	56.9	13.8	23.5	24	3.1
FS0200030SN0039SZZ	••	S	N	30	±20	2.2	3.9	6.1	—	—	1476	556	70	57	14.7	5.8	3.5	20	3.1
FS0150030SN0080SZZ	••	S	N	30	±20	2.2	8	11	—	—	693	332	34	57	7.1	2.2	3.1	15	3.1
FS0060040SN0260SZZ	•	S	N	40	±20	2.5	26	35	—	—	593	76	56	143	5.5	1.25	2.5	5.5	1.5
FS0100040SN0120SZZ	•	S	N	40	±20	2.5	12	17	—	—	1314	120	88	128	10.7	3.3	4.2	10	1.5
FS0110040SN0075SZZ	•	S	N	40	±20	2.5	7.5	10	—	—	2332	193	138	141	18.8	4.7	8.2	10.5	1.5
FS0070040SN0170SZZ	•	S	N	40	±20	2.5	17	22	—	—	1013	107	76	167	9.8	2.8	3.9	7.2	1.5
FS0130040SN0065SZZ	•	S	N	40	±20	2.5	6.5	9	—	—	2354	215	175	130	20	5.8	9.5	12.7	1.5
FS0140040SN0085SZZ	••	S	N	40	±20	2.5	8.5	15	—	—	690	193	38	49	5.8	3	1.2	14	2.5
FS0110040SN0090SZZ	••	S	N	40	±20	2.2	9	14	—	—	669	241	19	111	12.3	2.4	2.5	10.8	1.67
FS0100040SN0150SZZ	••	S	N	40	±20	2.4	15	23	—	—	376	240	19	57	3.8	2.8	1.1	9.5	2.08
FS0240040SN0032SZZ	••	S	N	40	±20	2.2	3.2	5.3	—	—	2648	899	71	73	22.7	7.5	5.5	24	22
FS0050060SN0300SZZ	•	S	N	60	±20	2.5	30	38	—	—	1378	86	64	378	12.6	3.2	6.3	4.8	1.5
FS0060060SN0200SZZ	•	S	N	60	±20	2.5	20	24	—	—	2423	145	97	376	18.8	7.7	6.2	6.3	1.5
FS0030060SN0900SZZ	•	S	N	60	±20	2.5	90	100	—	—	511	38	25	450	5	1.68	1.9	3	1.5
FS0050060SN0400SZZ	•	S	N	60	±20	2.5	40	50	—	—	1027	65	46	760	19	2.6	4.1	4.5	1.5
FS0080060SN0120SZZ	•	S	N	60	±20	2.5	12	15	—	—	3240	210	146	360	30	10.7	9.4	8	1.5
FS0130060SN0085SZZ	•	S	N	60	±20	2.5	8.5	12	—	—	3307	201	151	485	57	8.7	14	13	2.7
FS0180060SN0052SZZ	•	S	N	60	±20	2.5	5.2	7	—	—	4706	325	245	390	75	15.5	20.3	18	3.1
FS0160060SN0036SZZ	••	S	N	60	±20	2.3	3.6	5.4	—	—	3458	1522	22	209	58	16	4	16	1.67
FS0100060SN0120SZZ	••	S	N	60	±20	2.3	12	18	—	—	760	272	26	190	15.8	3.1	4.4	10.4	2.1
FS0110080SN0120SZZ	•	S	N	80	±20	2.5	12	14.5	—	—	3120	140	110	731	60.9	8.1	17.9	11	2.8
FS0180080SN0070SZZ	••	S	N	80	±20	2.3	7	9	—	—	2860	410	38	280	40	7.2	6.5	17.5	3.1
FS0030100SN1120SZZ	•	S	N	100	±20	2.5	112	120	—	—	1535	60	37	2934	26.2	3.8	4.8	2.5	1.5
FS0020100SN1520SZZ	•	S	N	100	±20	2.5	152	158	—	—	1077	46	32	3876	25.5	4.2	4.3	2	1.5
FS0040100SN0470SZZ	•	S	N	100	±20	2.5	47	50	—	—	3848	137	82	2820	60	9.2	9.9	3.6	1.5
FS0080100SN0200SZZ	•	S	N	100	±20	2.5	20	25	—	—	1930	245	125	720	36	5	10	7.5	2.5
FS0080100SN0240SZZ	•	S	N	100	±20	2.5	24	28	—	—	3307	201	151	1368	57	8.7	14	8	2.7
FS0110100SN0140SZZ	•	S	N	100	±20	3	14	17	—	—	4708	326	247	1050	75	15.5	20.3	11	3.1
FS0140100SN0080SZZ	••	S	N	100	±20	2.3	8	10.5	—	—	3320	605	20	360	45	9.5	4.8	13.5	3.1
FS0140100SN0080SAZ	••	S	N	100	±20	4	8	—	—	—	3148	693	26	360	45	9.5	4.8	13.5	3.1
FS0090100SN0200SZZ	••	S	N	100	±20	2.2	20	30	—	—	849	185	8	358	17.9	2.8	5.2	9.3	3.1
FS0120100SN0120SZZ	••	S	N	100	±20	2.3	12	15.5	—	—	2550	305	12	420	35	8	4	11.5	3.1
FS0070030DN0180SZZ	•	D	N	30	±20	2.5	18	28	—	—	572	80	65	108	6	2.5	2.1	7.3	1.5
FS0110030DN0100SZZ	•	D	N	30	±20	2.5	10	16	—	—	1317	163	131	126	12.6	4.2	5.1	11	2
FS0130030DN0060SZZ	•	D	N	30	±20	2.5	6	10	—	—	2295	267	210	126	21	7	6.9	13	1.5
FS0060030DN0250SZZ	•	D	N	30	±20	2.5	25	38	—	—	416	62	51	123	4.9	1.5	1.85	6.2	1.5
FS0090030DN0120SZZ	•	D	N	30	±20	2.5	12	18	—	—	940	131	109	116	9.63	3.88	3.44	9	1.5
FS0080040DN0150SZZ	•	D	N	40	±20	2.5	15	20	—	—	1314	120	88	161	10.7	3.3	4.2	7.5	1.5

\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

NOTE : All Specifications subject to change without notice.

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V

## SOP8 Series

Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	ID (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FS0080040DN0200SZZ	•	D	N	40	±20	2.5	20	26	—	—	1013	107	76	196	9.8	2.8	3.9	8	1.9
FS0050060DN0320SZZ	•	D	N	60	±20	2.5	32	38	—	—	1378	86	64	403	12.6	3.2	6.3	4.8	1.5
FS0060060DN0200SZZ	•	D	N	60	±20	2.5	20	24	—	—	2423	145	97	376	18.8	7.7	6.2	6.3	1.5
FS0030060DN0900SZZ	•	D	N	60	±20	2.5	90	100	—	—	511	38	25	360	4	1.31	1.78	3	1.5
FS0040060DN0500SZZ	•	D	N	60	±20	2.5	50	60	—	—	1027	65	46	950	19	2.6	4.1	4	1.5
FS0030080DN1000SZZ	•	D	N	80	±20	2.5	100	115	—	—	1090	60	41	1870	18.7	3.6	3.3	2.6	1.5
FS0030100DN1120SZZ	•	D	N	100	±20	2.5	112	120	—	—	1535	60	37.4	2184	19.5	3.2	3.6	2.5	1.5
FS0020100DN3100SZZ	•	D	N	100	±20	2.5	310	320	—	—	508	29	16	1240	4	1.2	1.3	1.5	1.5
FS0020100DN1520SZZ	•	D	N	100	±20	2.5	152	158	—	—	1077	46	32	2797	18.4	3	3.1	2.2	1.5
FS0040100DN0680SZZ	•	D	N	100	±20	2.9	68	94	—	—	620	105	63	809	11.9	2.6	1.7	4	2
FS0110020SP0090SZZ	•	S	P	-20	±8	-1.0	—	9	11.5	15	5783	509	431	567	63	9.1	13	-10.7	1.5
FS0170030SP0070SZZ	•	S	P	-30	±20	-2.5	7	11	—	—	3450	255	140	420	60	9	15	-16.8	3.1
FS0060030SP0420SZZ	•	S	P	-30	±20	-2.5	42	78	—	—	585	100	85	269	6.4	2.3	2	-5.5	1.5
FS0100030SP0200SZZ	•	S	P	-30	±20	-2.5	20	32	—	—	1345	194	158	252	12.6	4.8	4.8	-9.5	3.1
FS0120030SP0150SZZ	•	S	P	-30	±20	-2.5	15	25	—	—	2215	310	237	300	20	5.1	7.3	-11.5	1.5
FS0050030SP0620SZZ	•	S	P	-30	±20	-2.5	62	110	—	—	463	82	68	324	5.22	1.25	2.3	-5	1.5
FS0060030SP0300SZZ	•	S	P	-30	±20	-2.5	30	55	—	—	930	148	115	294	9.8	2.2	3.4	-6	1.5
FS0140030SP0087SZZ	•	S	P	-30	±25	-2.5	8.7	13.5	—	—	3448	508	421	261	30	10	10.4	-14	1.5
FS0040040SP0650SZZ	•	S	P	-40	±20	-2.5	65	100	—	—	620	69	52	377	5.8	1.2	2.1	-4	1.5
FS0060040SP0320SZZ	•	S	P	-40	±20	-2.5	32	46	—	—	1415	134	102	368	11.5	3.5	3.3	-5.6	1.5
FS0100040SP0220SZZ	•	S	P	-40	±20	-2.2	22	30	—	—	2370	189	160	429	19.5	6.1	6.6	-9.8	1.67
FS0080040SP0400SZZ	•	S	P	-40	±20	-2.5	40	70	—	—	1004	108	80	360	9	2.54	3.1	-7.5	3.1
FS0090040SP0130SZZ	•	S	P	-40	±20	-2.5	13	20	—	—	3500	323	222	364	28	7.7	7.5	-8.7	1.5
FS0030060SP1400SZZ	•	S	P	-60	±20	-2.5	140	190	—	—	715	51	34	826	5.9	2.9	1.8	-3	1.5
FS0040060SP0700SZZ	•	S	P	-60	±20	-2.5	70	105	—	—	1447	97.3	70	690	9.86	3.08	2.95	-3.7	1.5
FS0080060SP0350SZZ	•	S	P	-60	±20	-2.5	35	55	—	—	2217	310	238	840	24	8.6	7.3	-7.8	3.1
FS0020060SP1800SZZ	•	S	P	-60	±20	-2.5	180	266	—	—	531	59	38	828	4.6	1.4	1.62	-2.2	1.5
FS0040060SP0900SZZ	•	S	P	-60	±20	-2.5	90	115	—	—	1080	73	50	1062	11.8	1.9	6.5	-4.1	3.1
FS0110060SP0250SZZ	•	S	P	-60	±20	-2.5	25	33	—	—	3635	224	141	625	25	6.7	5.5	-11	5.2
FS0020100SP2100SZZ	•	S	P	-100	±20	-2.5	210	240	—	—	1228	41	29	3990	19	3.4	2.9	-1.8	1.5
FS0020100SP6500SZZ	•	S	P	-100	±20	-2.5	650	700	—	—	553	29	20	6045	9.3	1.75	1.25	-1.5	1.5
FS0030100SP0950SZZ	•	S	P	-100	±20	-2.5	95	110	—	—	3029	129	76	4361	45.9	7.3	6.9	-3	1.5
FS0010150SP7800SZZ	•	S	P	-150	±20	-4	780	—	—	—	706	23	13	8424	10.8	3.1	2.2	-1.1	2
FS0050030DP0450SZZ	•	D	P	-30	±20	-2.5	45	82	—	—	632	100	74	288	6.4	2.2	2.3	-4.9	1.5
FS0070030DP0250SZZ	•	D	P	-30	±20	-2.5	25	42	—	—	1345	194	158	315	12.6	4.8	4.8	-6.5	1.5
FS0090030DP0160SZZ	•	D	P	-30	±25	-2.5	16	28	—	—	2215	310	237	320	20	5.1	7.3	-9	2
FS0070040DP0450SZZ	•	D	P	-40	±20	-2.5	45	75	—	—	1004	108	80	405	9	2.54	3.1	-6.5	3.1
FS0040060DP0700SZZ	•	D	P	-60	±20	-2.5	70	105	—	—	1447	97.3	70	690	9.86	3.08	2.95	-3.7	1.5
FS0140030SP0105SZZ	•	S	P	-30	±20	-2.5	10.5	16	—	—	2967	348	240	252	24	5.9	8.5	-14	3.1
FS0060030CT0270SZZ	•	C	N	30	±20	2.5	27	40	—	—	416	62	51	135	5.0	1.11	2.61	6	1.5
	•	C	P	-30	±20	-2.5	32	56	—	—	930	148	115	314	9.8	2.2	3.4	-5.7	1.5
FS0100030CT0180SZZ	•	C	N	30	±20	2.5	18	28	—	—	572	81	65	130	7.2	1.4	2.2	10	2
	•	C	P	-30	±20	-2.5	30	55	—	—	930	148	115	294	9.8	2.2	3.4	-7.6	2
FS0090030CT0120SZZ	•	C	N	30	±20	2.5	12	18	—	—	940	131	109	116	9.63	3.88	3.44	9	1.5
	•	C	P	-30	±20	-2.5	15	25	—	—	2215	310	237	300	20	5.1	7.3	-11.5	1.5
FS0060030CT0270SZZ-1	•	C	N	30	±20	2.5	27	40	—	—	416	62	51	135	5.0	1.11	2.61	6.2	1.5
	•	C	P	-30	±20	-2.5	62	110	—	—	463	82	68	324	5.22	1.25	2.3	-4	1.5
FS0110040AN0085SZZ	•	A	N	40	±20	2.5	17	22	—	—	1013	107	76	170	10	2.6	4.1	7.2	1.5
	•	A	N	40	±20	2.5	8.5	12	—	—	2332	193	138	160	18.8	4.7	8.2	10.5	1.5
FS0060040CT0260SZZ	•	C	N	40	±20	2.5	26	35	—	—	593	76	56	143	5.5	1.25	2.5	6.1	1.67
	•	C	P	-40	±20	-2.5	32	46	—	—	1415	134	102	368	11.5	3.5	3.3	-6	1.67

\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V

NOTE : All Specifications subject to change without notice.



## SOP8 Series

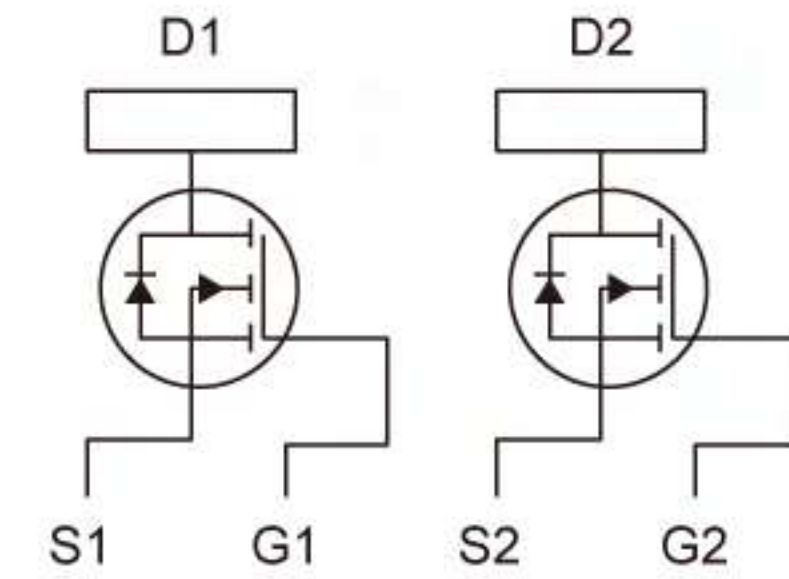
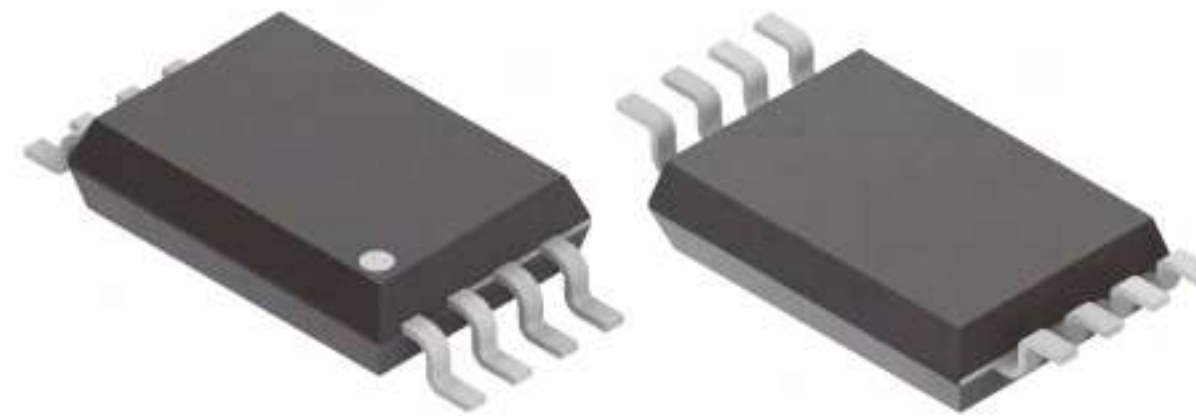
Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	I <sub>D</sub> (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FS0070040CT0280SZZ	•	C	N	40	±20	2.5	28	42	—	—	593	76	56	154	5.5	1.25	2.5	7.2	2.5
	•	C	P	-40	±20	-2.5	40	65	—	—	1004	108	80	360	9	2.54	3.1	-6.5	3.1
FS0070040CT0280SZZ-1	•	C	N	40	±20	2.5	28	42	—	—	593	76	56	154	5.5	1.25	2.5	7.2	2.5
	•	C	P	-40	±20	-2.5	65	100	—	—	620	69	52	377	5.8	1.2	2.1	-4	1.5
FS0100040CT0180SZZ	•	C	N	40	±20	2.5	18	25	—	—	1013	107	76	164	9.1	2.1	4.1	10	3.1
	•	C	P	-40	±20	-2.5	40	70	—	—	1004	108	80	360	9	2.54	3.1	-7.5	3.1
FS0050060CT0320SZZ	•	C	N	60	±20	2.5	32	38	—	—	1378	86	64	403	12.6	3.2	6.3	4.8	1.5
	•	C	P	-60	±20	-2.5	70	105	—	—	1447	97.3	70	690	9.86	3.1	2.95	-3.7	1.5
FS0050060CT0520SZZ	•	C	N	60	±20	2.5	52	75	—	—	1027	65	46	988	19	2.6	4.1	5	2
	•	C	P	-60	±20	-2.5	100	105	—	—	1137	76	50	1210	12.1	2.2	6.3	-3.8	2
FS0030100CT1000SZZ	•	C	N	100	±20	2.7	100	125	—	—	987	38	26	1500	15	3.2	2.6	3	2.1
	•	C	P	-100	±20	-2.5	220	255	—	—	1228	41	29	4180	19	3.4	2.9	-2.1	2.1

\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

NOTE : All Specifications subject to change without notice.

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V

## TSSOP8 Series



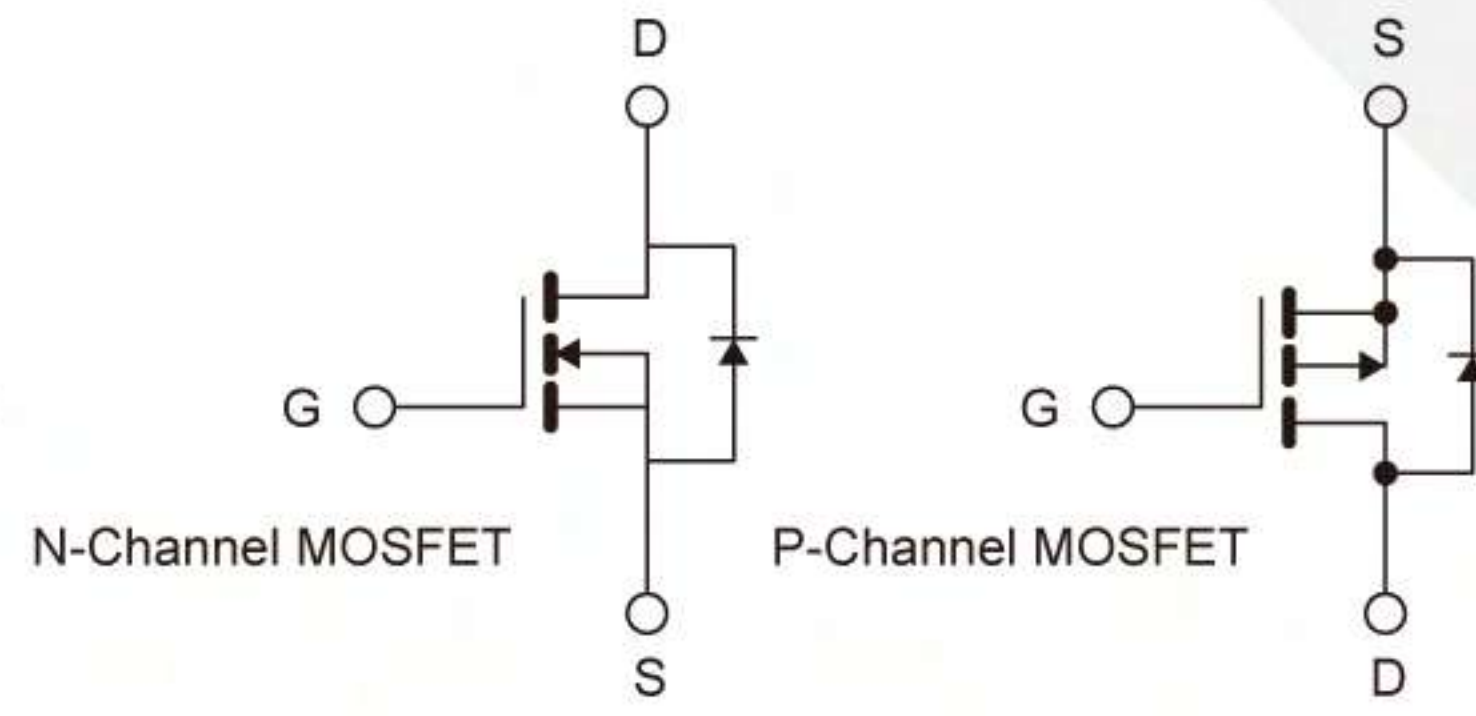
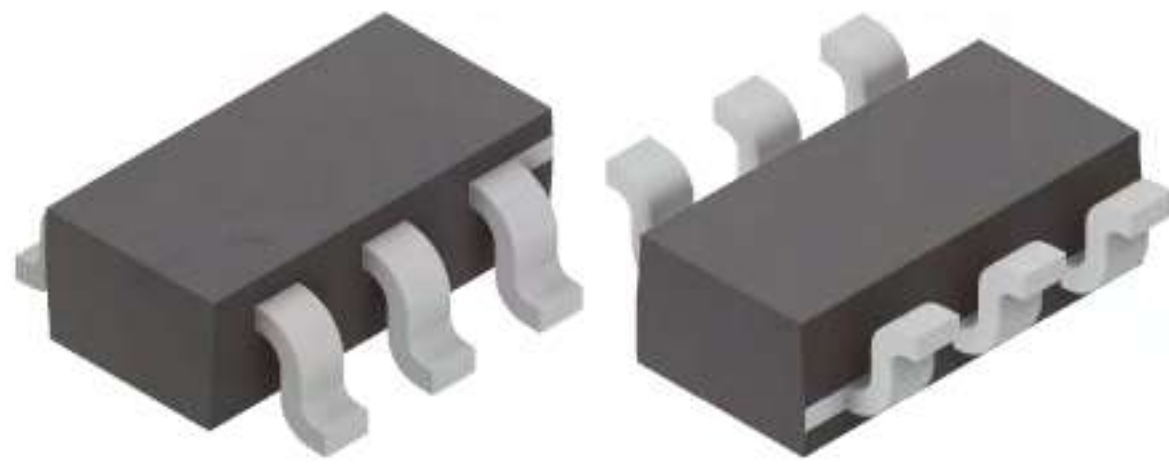
Dual N

Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	I <sub>D</sub> (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FO0050020DN0300SZZ	•	D	N	20	±12	1.0	—	30	35	43	670	75	68	258	8.6	1.37	2.3	4.5	1
FO0070020DN0145SZZ	•	D	N	20	±12	1.2	—	14.5	23	—	850	81	70	162	11.2	1.6	2.9	7	2
FO0070020DN0185SZZ	•	D	N	20	±12	1.2	—	18.5	28.5	—	865	86	72	209	11.3	1.59	2.86	7	1.5
FO0060020DN0250SZZ	•	D	N	20	±12	1.2	—	25	40	—	863	87	71	285	11.4	1.6	2.9	6	1.5

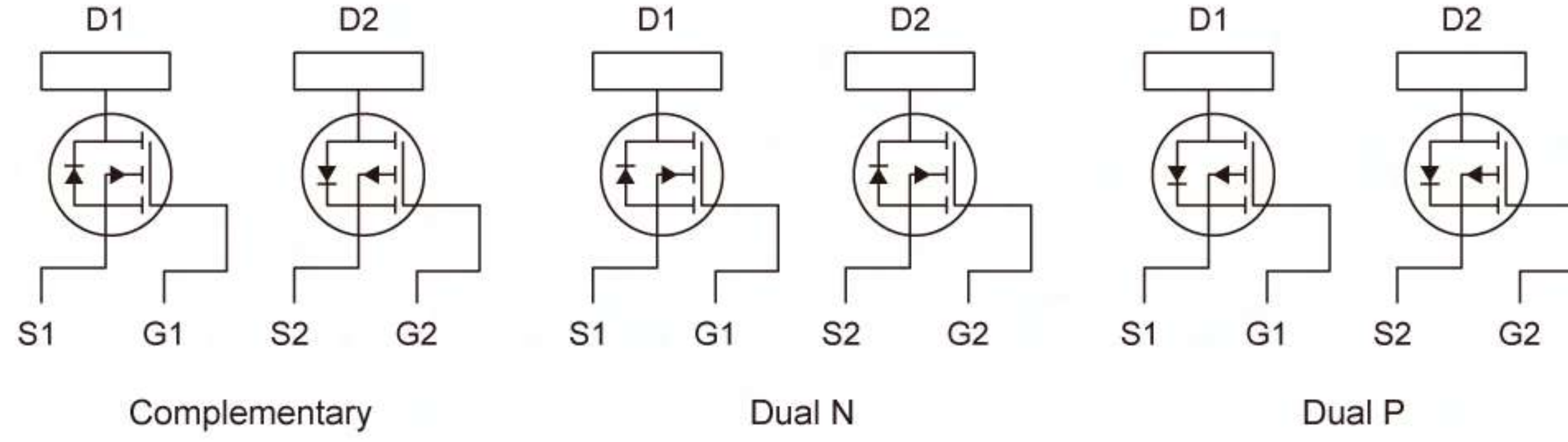
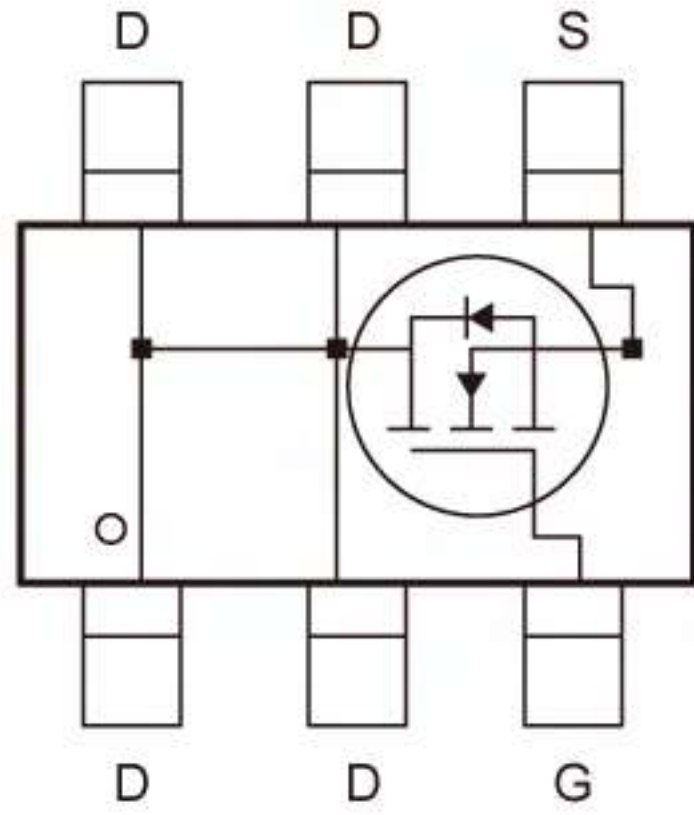
\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

NOTE : All Specifications subject to change without notice.

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V



# TSOP6 Series



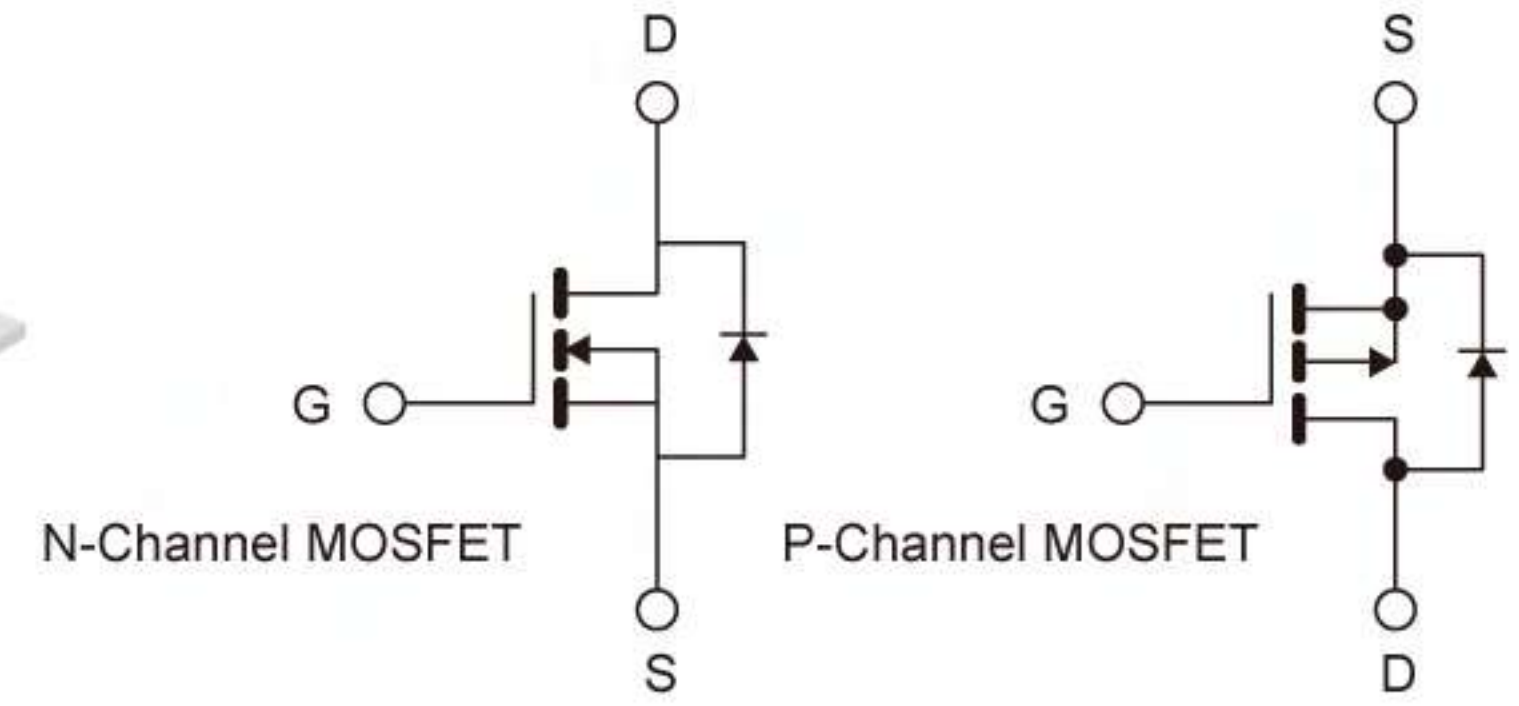
Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	I <sub>D</sub> (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FQ0050020SN0370SZZ	•	S	N	20	±12	1.2	—	37	45	—	635	70	63	318	8.6	1.37	2.3	4.5	1.1
FQ0060020DN0200SZZ	•	D	N	20	±12	1.2	—	20	26	—	630	66	63	208	10.4	1.3	2.6	6	1.25
FQ0060020DN0235SZZ	•	D	N	20	±12	1.2	—	23.5	35.5	—	635	67	61	244	10.4	1.6	2.9	5.5	1.25
FQ0070020DN0170SZZ	•	D	N	20	±12	1.2	—	17	24.5	—	523	81	56	187	11	1.2	3.2	7	1.25
FQ0060020DN0245SZZ	•	D	N	20	±12	1.2	—	24.5	33	—	638	69	66	279	11.4	1.4	2.8	6	1.25
FQ0050020DN0275SZZ	•	D	N	20	±12	1.2	—	27.5	38	—	636	66	59	281	10.2	1.5	3	5	1.25
FQ0050030SN0280SZZ	•	S	N	30	±20	2.5	28	40	—	—	572	81	65	202	7.2	1.4	2.2	5	1.1
FQ0080030SN0125SZZ	•	S	N	30	±20	2.5	12.5	18	—	—	940	131	109	120	9.6	3.9	3.4	8	2.1
FQ0050030DN0330SZZ	•	D	N	30	±20	2.5	33	50	—	—	420	60	53	165	5	1.1	2.6	4.6	1
FQ0040030DN0600SZZ	•	D	N	30	±12	1.2	60	65	85	—	662	52	45	504	8.4	1.6	1.8	3.8	1.1
FQ0020060SN1000SZZ	•	S	N	60	±20	2.5	100	110	—	—	511	38	25	500	5	1.68	1.9	2.3	1
FQ0030060DN1000SZZ	•	D	N	60	±20	2.5	100	110	—	—	511	38	25	500	5	1.61	1.96	2.5	1.1
FQ0010100DN3100SZZ	•	D	N	100	±20	2.5	310	320	—	—	508	29	16.4	3007	9.7	1.6	1.7	1.2	1
FQ0070020SP0300SZZ	•	S	P	-20	±12	-1.0	—	30	38	55	2280	220	187	819	27.3	3.6	6.5	-6.9	1
FQ0050030SP0520SZZ	•	S	P	-30	±20	-2.5	52	83	—	—	583	100	80	333	6.4	2.3	1.9	-5	1.9
FQ0080030SP0340SZZ	•	S	P	-30	±20	-2.5	34	55	—	—	930	148	115	333	9.8	2.2	3.4	-7.5	1.9
FQ0030020DP1000SZZ	•	D	P	-20	±12	-1.2	—	100	140	—	677	82	73	1010	10.1	1.21	2.46	-3	1.25
FQ0040020CT0550SZZ	•	C	N	20	±12	1.2	—	55	75	—	310	49	35	253	4.6	0.7	1.5	3.5	1.14
	•	C	P	-20	±12	-1.2	—	100	140	—	677	82	73	1010	10.1	1.21	2.46	-2.5	1.14
FQ0040020CT0500SZZ	•	C	N	20	±12	1.0	—	50	75	100	670	75	68	430	8.6	1.37	2.3	3.8	1.1
	•	C	P	-20	±12	-1.0	—	70	95	115	686	90.8	80.4	679	9.7	2.05	2.43	-2.5	1.1
FQ0040030CT0600SZZ	•	C	N	30	±12	1.2	60	65	85	—	662	52	45	504	8.4	1.6	1.8	3.8	1.1
	•	C	P	-30	±12	-1.2	115	145	200	—	710	79	57	932	8.1	1.2	2.1	-2.3	1.1

\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

NOTE : All Specifications subject to change without notice.

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V

# SOT223 Series



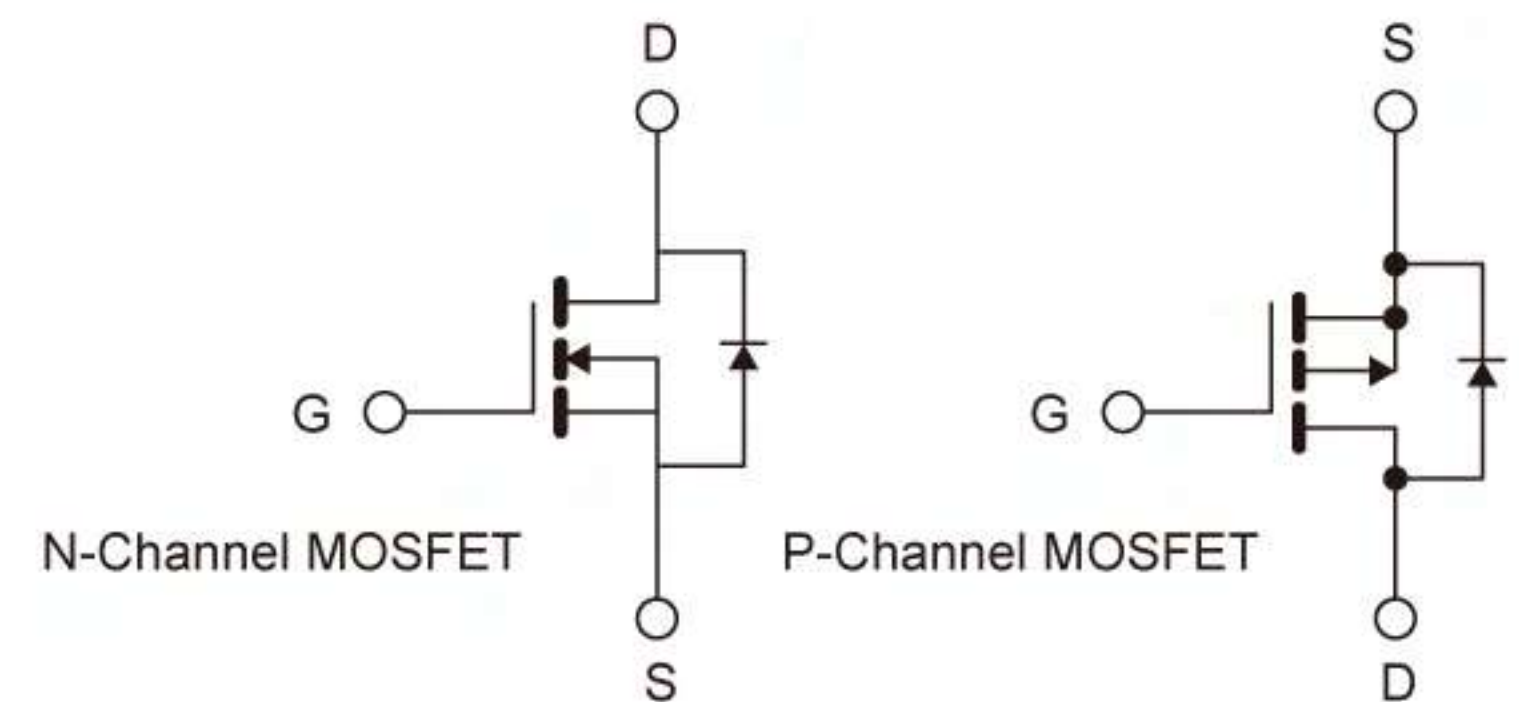
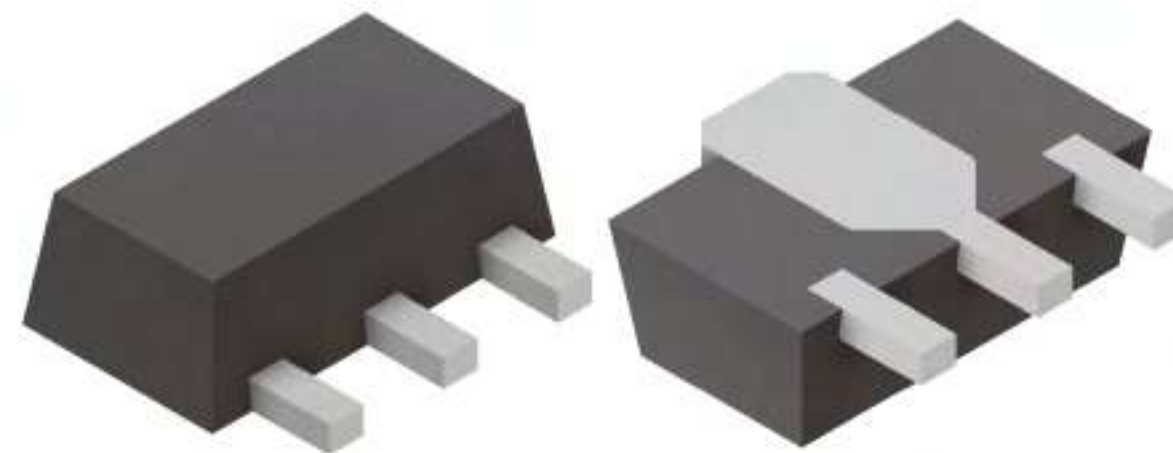
Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	I <sub>D</sub> (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FL0060030SN0280SZZ	•	S	N	30	±20	2.5	28	40	—	—	572	81	65	168	6	2.5	2.1	5.8	1.5
FL0030060SN1000SZZ	•	S	N	60	±20	2.5	100	110	—	—	511	38	25	500	5	1.68	1.9	2.8	1.5
FL0050060SN0500SZZ	•	S	N	60	±20	2.5	50	60	—	—	1027	65	46	950	19	2.6	4.1	5	2.7
FL0030100SN1120SZZ	•	S	N	100	±20	2.5	112	120	—	—	1535	60	37	2934	26.2	3.8	4.8	2.5	1.5
FL0030100SN0750SZZ	•	S	N	100	±20	2.5	75	82	—	—	2400	100	82	3000	40	7.3	7	3	2
FL0020100SN3100SZZ	•	S	N	100	±20	2.5	310	320	—	—	510	30	16	2883	9.3	2	1.5	2.2	1.5
FL0060100SN0470SZZ	•	S	N	100	±20	2.5	47	50	—	—	3848	137	82	2820	60	9.2	9.9	6	1.5
FL0030100SN1000SZZ	•	S	N	100	±20	2.5	100	120	—	—	450	55	16	1190	11.9	2.8	1.7	3.3	2.2
FL0020200SN10000SZZ	•	S	N	200	±20	3	1000	1100	—	—	900	130	4.6	15000	15	3	5.2	1.5	42
FL0050030SP0520SZZ	•	S	P	-30	±20	-2.5	52	90	—	—	583	100	80	333	6.4	2.3	1.9	-4.5	1.5
FL0060030SP0320SZZ	•	S	P	-30	±20	-2.5	32	45	—	—	1345	194	158	403	12.6	4.8	4.8	-5.8	1.5
FL0040030SP0700SZZ	•	S	P	-30	±20	-2.5	70	120	—	—	463	82	68	365	5.22	1.25	2.3	-3.9	1.5
FL0040060SP1300SZZ	•	S	P	-60	±20	-2.5	130	190	—	—	715	51	34	767	5.9	2.9	1.8	-4.3	2
FL0020060SP1800SZZ	•	S	P	-60	±20	-2.5	180	260	—	—	428	39	26	1494	8.3	1.8	1.6	-2.3	1.5
FL0020100SP6500SZZ	•	S	P	-100	±20	-2.5	650	700	—	—	553	29	20	6045	9.3	1.75	1.25	-1.5	1.5

\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

NOTE : All Specifications subject to change without notice.

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V

# SOT89 Series



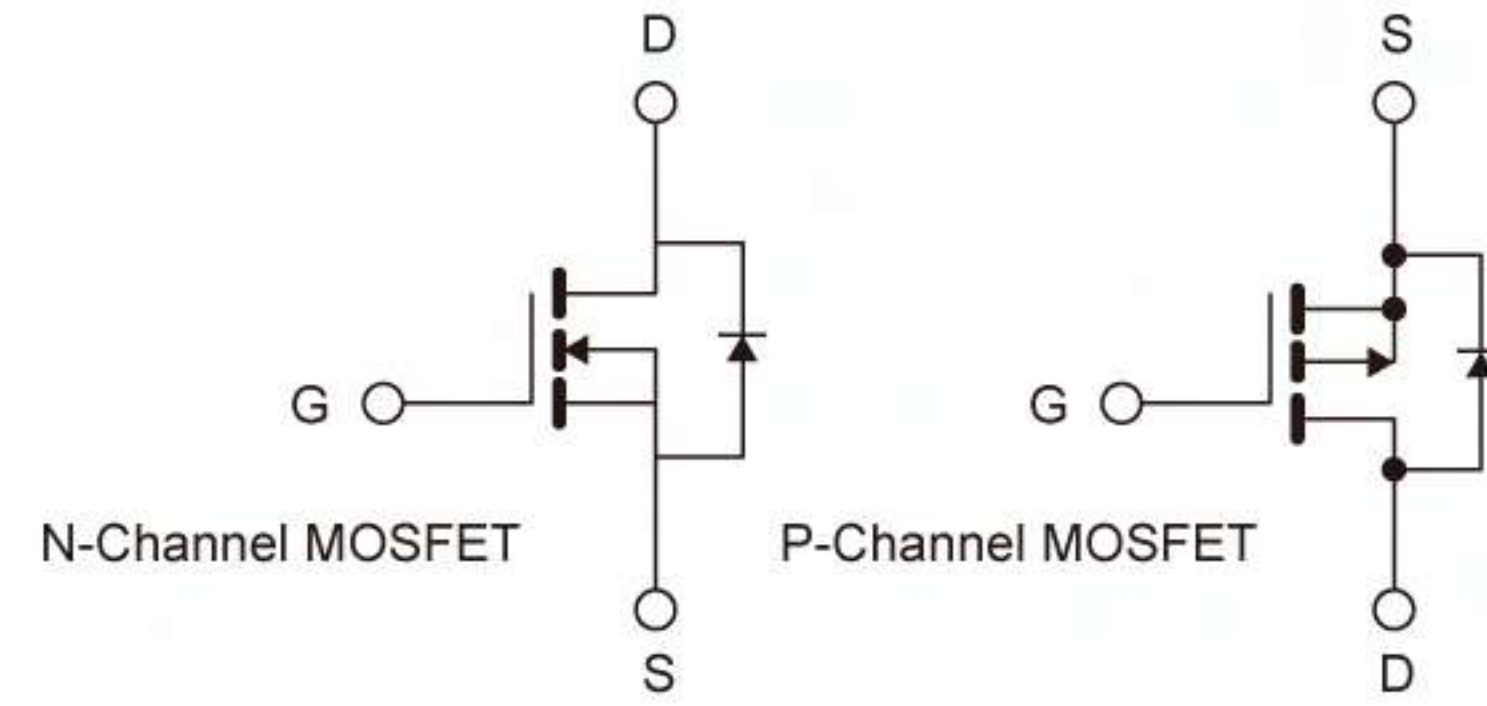
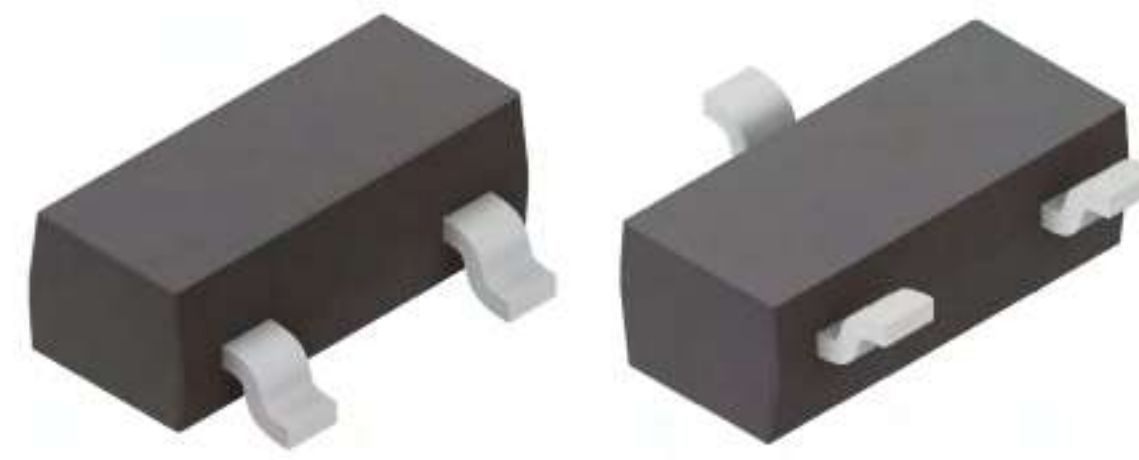
Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	I <sub>D</sub> (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FK0060030SN0280SZZ	•	S	N	30	±20	2.5	28	40	—	—	572	81	65	168	6	2.5	2.1	5.8	1.5
FK0060040SN0400SZZ	•	S	N	40	±20	2.5	40	55	—	—	452	51	38	200	5	1.54	1.84	6	1.47
FK0030060SN1000SZZ	•	S	N	60	±20	2.5	100	110	—	—	511	38	25	500	5	1.68	1.9	2.8	1.5
FK0050060SN0500SZZ	•	S	N	60	±20	2.5	50	60	—	—	1027	65	46	950	19	2.6	4.1	5	2
FK0020100SN3100SZZ	•	S	N	100	±20	2.5	310	320	—	—	508	29	16.4	2821	9.1	2	1.4	2.2	1.5
FK0030100SN1600SZZ	•	S	N	100	±20	2.5	160	170	—	—	1077	46	32	4080	25.5	4.2	4.3	3	1.5
FK0040030SP0520SZZ	•	S	P	-30	±20	-2.5	52	90	—	—	583	100	80	333	6.4	2.3	1.9	-4	1.32
FK0060030SP0320SZZ	•	S	P	-30	±20	-2.5	32	45	—	—	1345	194	158	403	12.6	4.8	4.8	-5.8	1.5
FK0040030SP0700SZZ	•	S	P	-30	±20	-2.5	70	120	—	—	463	82	68	365	5.22	1.25	2.3	-3.9	1.5
FK0050030SP0400SZZ	•	S	P	-30	±20	-2.5	40	62	—	—	1100	150	125	392	9.8	3.6	3.2	-5	1.5
FK0060040SP0700SZZ	•	S	P	-40	±20	-2.5	70	100	—	—	620	65	53	448	6.4	2.1	2.5	-5.8	1.4

\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

NOTE : All Specifications subject to change without notice.

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V

# SOT23 Series



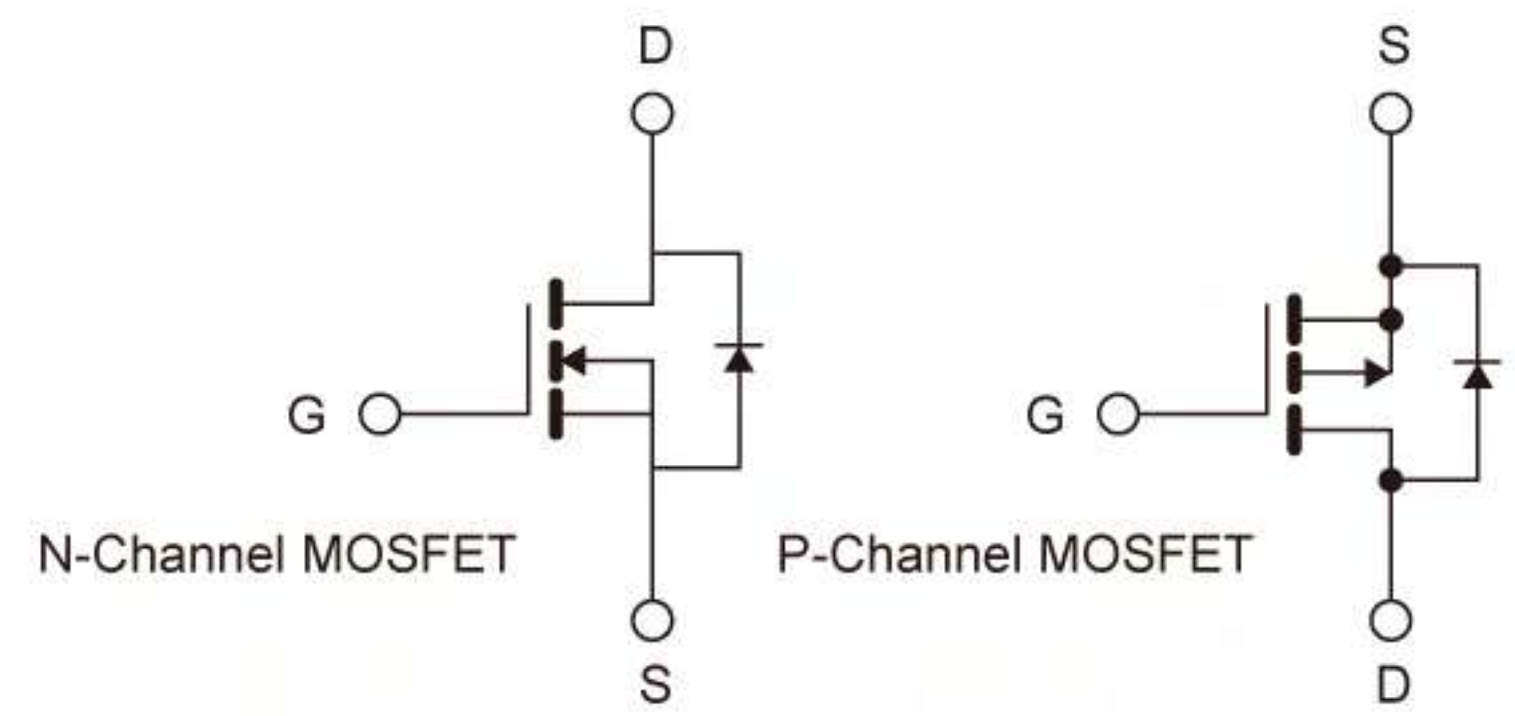
Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	I <sub>D</sub> (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FN0060020SN0260SZZ	•	S	N	20	±12	1.0	—	26	35	50	670	75	68	224	8.6	1.37	2.3	6	1
FN0040020SN0550SZZ	•	S	N	20	±12	1.2	—	55	75	—	310	49	35	253	4.6	0.7	1.5	3.6	1
FN0050030SN0280SZZ	•	S	N	30	±20	2.5	28	40	—	—	572	81	65	168	6	2.5	2.1	5	1
FN0050030SN0330SZZ	•	S	N	30	±20	2.5	33	50	—	—	420	60	53	165	5.0	1.1	2.6	4.6	1
FN0060030SN0270SZZ	•	S	N	30	±12	1.2	27	32	40	—	860	84	70	311	11.5	1.6	2.9	5.8	1
FN0040030SN0400SZZ	•	S	N	30	±12	1.2	—	40	47	—	662	51.3	43.6	334	8.34	1.26	1.88	3.9	1
FN0050040SN0320SZZ	•	S	N	40	±20	2.5	32	45	—	—	593	76	56	176	5.5	1.25	2.5	5	1.25
FN0050040SN0370SZZ	•	S	N	40	±20	2.5	37	50	—	—	452	51	38	185	5	1.54	1.84	4.5	1
FN0020060SN1000SZZ	•	S	N	60	±20	2.5	100	110	—	—	511	38	25	500	5	1.68	1.9	2.3	1
FN0050060SN0500SZZ	•	S	N	60	±20	2.5	50	60	—	—	1028	66	47	950	19	2.6	4.1	5	2.7
FN0010100SN3100SZZ	•	S	N	100	±20	2.5	310	320	—	—	508	29	16.4	3007	9.7	1.6	1.7	1.2	1
FN0020100SN1200SZZ	••	S	N	100	±20	2.3	120	150	—	—	180	32	2.5	419	3.49	0.66	0.92	2.1	1
FN0020100SN1600SZZ	•	S	N	100	±20	2.5	160	175	—	—	1077	46	32	4000	25	4.2	4.3	2	1.5
FN0030020SP0600SZZ	•	S	P	-20	±12	-1.2	—	60	90	—	857	114	108	612	10.2	1.89	3.1	-3.4	1
FN0050020SP0320SZZ	•	S	P	-20	±12	-1.0	—	32	40	55	2280	220	187	874	27.3	3.6	6.5	-4.7	1
FN0030020SP0750SZZ	•	S	P	-20	±12	-1.2	—	75	105	—	686	90.8	80.4	728	9.7	2.05	2.43	-3.1	1
FN0050020SP0450SZZ	•	S	P	-20	±12	-1.0	—	45	60	85	857	114	108	459	10.2	1.89	3.1	-4.9	1.31
FN0030020SP1000SZZ	•	S	P	-20	±12	-1.0	—	100	120	—	677	82	73	1010	10.1	1.21	2.46	-3	1
FN0030030SP0520SZZ	•	S	P	-30	±20	-2.5	52	90	—	—	583	100	80	333	6.4	2.3	1.9	-3.3	1
FN0050030SP0320SZZ	•	S	P	-30	±20	-2.5	32	45	—	—	942	165	137	310	9.7	2.5	3	-4.8	1
FN0030030SP0700SZZ	•	S	P	-30	±20	-2.5	70	120	—	—	463	82	68	365	5.22	1.25	2.3	-3.2	1
FN0040030SP0400SZZ	•	S	P	-30	±20	-2.5	40	62	—	—	930	148	115	392	9.8	2.2	3.4	-4.2	1
FN0040030SP0530SZZ	•	S	P	-30	±12	-1.2	53	60	80	—	920	73	71	631	11.9	1.8	3	-4.3	1.4
FN0030030SP0600SZZ	•	S	P	-30	±12	-1.2	60	80	120	200	750	79	57	486	8.1	1.2	2.1	-3.2	1.38
FN0030040SP0700SZZ	•	S	P	-40	±20	-2.5	70	100	—	—	620	65	53	448	6.4	2.1	2.5	-3.2	1
FN0020060SP1800SZZ	•	S	P	-60	±20	-2.5	180	266	—	—	531	59	38	828	4.6	1.4	1.62	-1.7	1
FN0010100SP6500SZZ	•	S	P	-100	±20	-2.5	650	700	—	—	553	29	20	2925	4.5	1.14	1.5	-0.9	1

\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

NOTE : All Specifications subject to change without notice.

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V

# SOT23s Series



Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	I <sub>D</sub> (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FU0040020SN0600SZC		S	N	20	±12	1.2	—	60	80	—	310	49	35	276	4.6	0.7	1.5	3.6	1
FU0060020SN0260SZC		S	N	20	±12	1.0	—	26	35	50	670	75	68	224	8.6	1.37	2.3	6	1
FU0060030SN0270SZC		S	N	30	±12	1.2	27	32	40	—	860	84	70	311	11.5	1.6	2.9	5.8	1
FU0040030SN0400SZC		S	N	30	±12	1.2	—	40	47	—	662	51.3	43.6	334	8.34	1.26	1.88	3.9	1
FU0030060SN0850SZC		S	N	60	±20	2.5	85	100	—	—	695	148	7	468	5.5	1.8	2.4	3	1.25
FU0020060SN1000SZC		S	N	60	±20	2.5	100	110	—	—	511	38	25	500	5	1.68	1.9	2.3	1
FU0030020SP1000SZC		S	P	-20	±12	-1.0	—	100	135	240	677	82	73	1010	10.1	1.21	2.46	-3.3	1.4
FU0030020SP0600SZC		S	P	-20	±12	-1.0	—	60	80	100	857	114	108	612	10.2	1.89	3.1	-3.4	1
FU0030020SP0750SZC		S	P	-20	±12	-1.2	—	75	105	—	686	90.8	80.4	728	9.7	2.05	2.43	-3.1	1
FU0050020SP0450SZC		S	P	-20	±12	-1.0	—	45	60	85	857	114	108	459	10.2	1.89	3.1	-4.9	1.31
FU0030030SP0520SZC		S	P	-30	±20	-2.5	52	90	—	—	583	100	80	333	6.4	2.3	1.9	-3.3	1
FU0030030SP0700SZC		S	P	-30	±20	-2.5	70	120	—	—	463	82	68	365	5.22	1.25	2.3	-3.2	1
FU0040030SP0530SZC		S	P	-30	±12	-1.2	53	60	80	—	920	73	71	631	11.9	1.8	3	-4.3	1.4

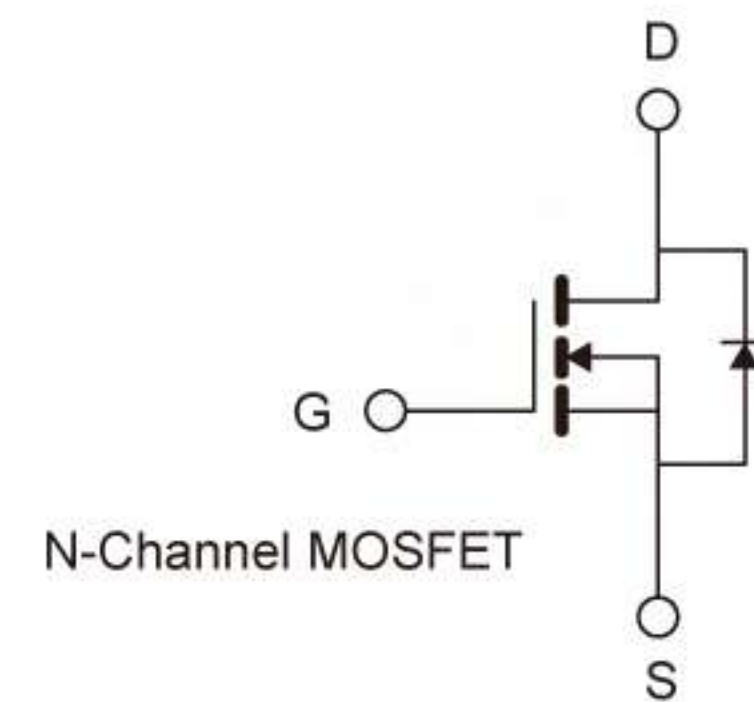
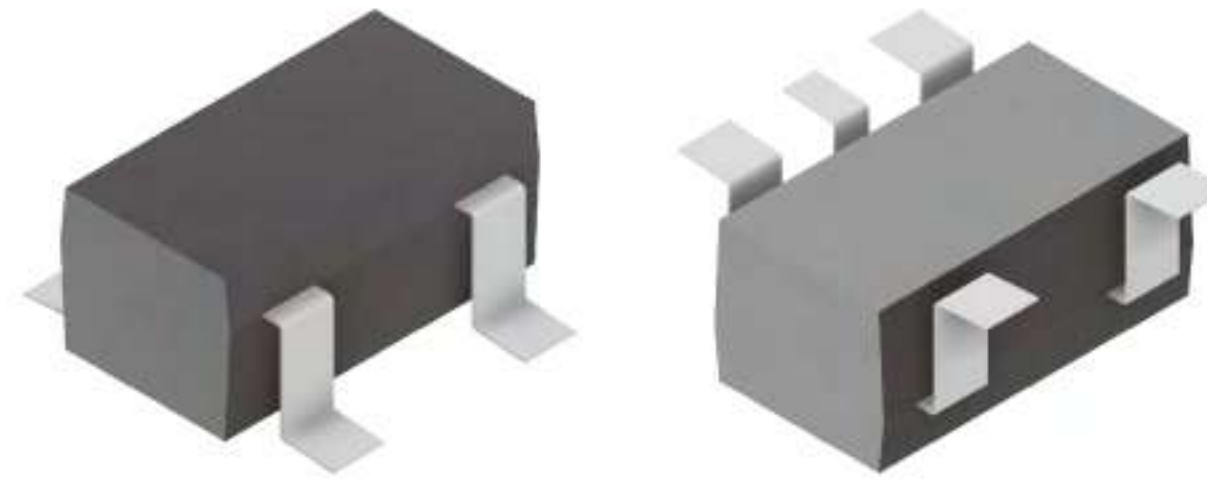
\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

NOTE : All Specifications subject to change without notice.

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V

FUZETEC - SOT Package

# SOT323 Series



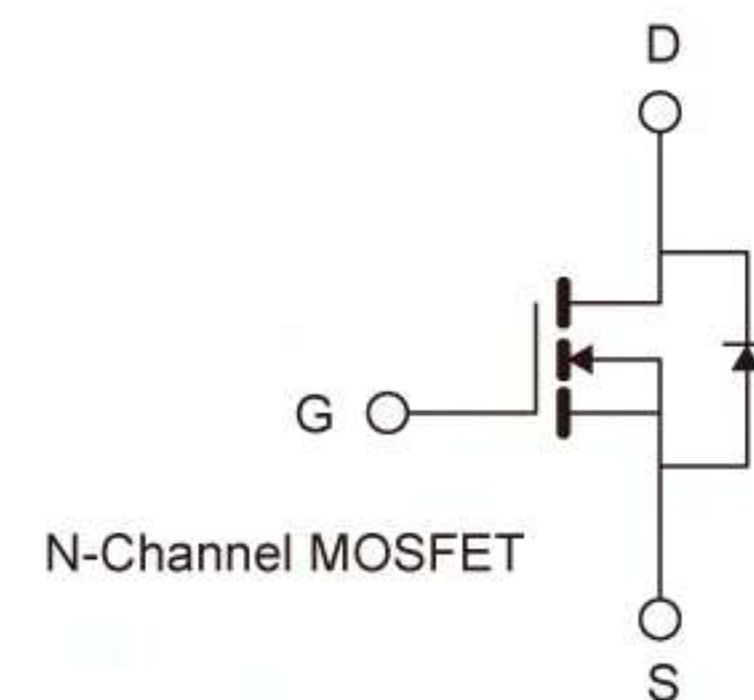
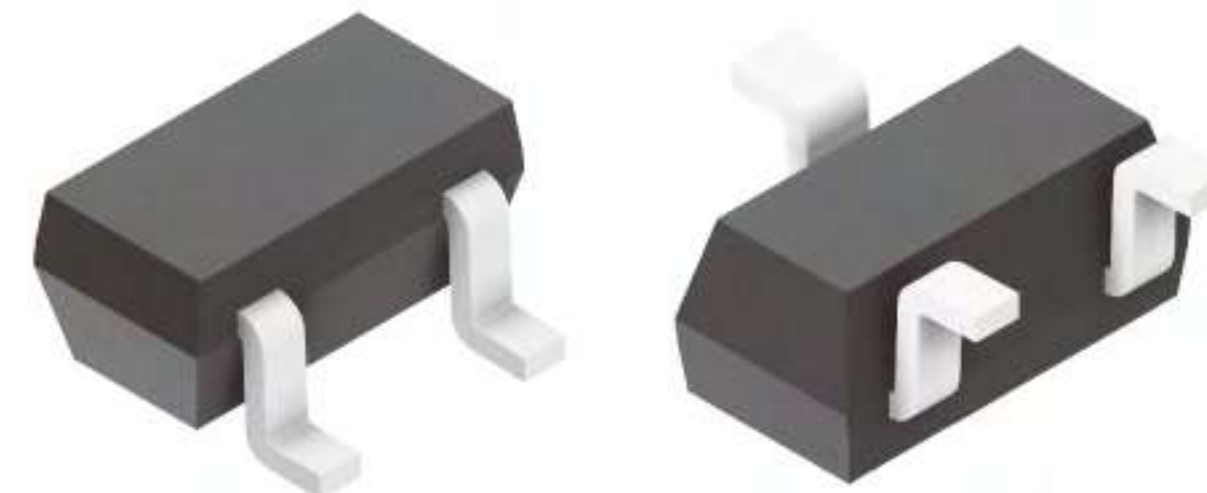
Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	I <sub>D</sub> (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FU0020020SN0800SZA	•	S	N	20	±12	1.0	—	80	100	120	310	49	35	368	4.6	0.7	1.5	1.6	0.37

\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

NOTE : All Specifications subject to change without notice.

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V

# SOT523 Series



Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	I <sub>D</sub> (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FU0010020SN4500SZB	•	S	N	20	±8	1.0	—	450	760	850	47	16	11	540	1.2	0.24	0.3	0.7	0.4

\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

NOTE : All Specifications subject to change without notice.

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V





## PRPAK5x6 Series

Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	ID (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FB0300030CT0180SZA		C	N	30	±20	2.5	18	28	—	—	572	81	65	130	7.2	1.4	2.2	30	18.9
		C	P	-30	±20	-2.5	30	55	—	—	930	148	115	294	9.8	2.2	3.4	-24	18.9
FB0330030CT0120SZA		C	N	30	±20	2.5	12	18	—	—	942	132	108	118	9.8	4.1	3.5	33	25
		C	P	-30	±20	-2.5	18	30	—	—	2213	311	235	396	22	5.4	7	-31	25
FB0770030AN0036SZA	•	A	N	30	±20	2.2	3.6	5.5	—	—	1538	749	120	104	29	4.6	6.8	77	1.67
	•	A	N	30	±20	2.2	1.2	2	—	—	4887	2389	293	98	82	13.1	17.6	189	1.67
FB0250030AN0060SZA	•	A	N	30	±20	2.2	6	9	—	—	1113	436	55	54	9	2.8	3.6	25	21
	•	A	N	30	±20	2.2	6	9	—	—	1113	436	55	54	9	2.8	3.6	25	21
FB0500030AN0052SZA	•	A	N	30	±20	2.2	5.2	9	—	—	1113	436	55	47	9	2.8	3.6	50	21
	•	A	N	30	±20	2.2	3.9	6.1	—	—	1476	556	70	57	14.7	5.8	3.5	60	22
FB0390040AN0170SZA		A	N	40	±20	2.5	17	22	—	—	1013	107	76	170	10	2.55	4.8	39	41
		A	N	40	±20	2.5	8.5	12	—	—	2332	193	138	160	18.8	4.7	8.2	54	41
FB0260040CT0300SZA		C	N	40	±20	2.5	30	50	—	—	593	76	56	165	5.5	1.25	2.5	26	35.7
		C	P	-40	±20	-2.5	45	70	—	—	1004	108	80	405	9	2.54	3.1	-25	35.7
FB0260040CT0300SZA-1		C	N	40	±20	2.5	30	50	—	—	593	76	56	165	5.5	1.25	2.5	26	35.7
		C	P	-40	±20	-2.5	65	100	—	—	620	69	52	377	5.8	1.2	2.1	-16	25
FB0150040CT0080SZA		C	N	40	±20	2.5	8	10	—	—	2332	192	138	150	18.8	4.7	8.2	15	35.7
		C	P	-40	±20	-2.5	13	20	—	—	3500	323	222	363	27.9	7.7	7.5	-15	35.7
FB0230060CT0320SZA		C	N	60	±20	2.5	32	38	—	—	1378	86	64	402	12.56	3.24	6.31	23	41.6
		C	P	-60	±20	-2.5	70	105	—	—	1447	97	70	690	9.86	3.08	2.95	-18	41.6
FB0200060CT0450SZA		C	N	60	±20	2.5	45	52	—	—	1027	65	46	855	19	2.5	5	20	41.6
		C	P	-60	±20	-2.5	100	125	—	—	1080	73	50	1180	11.8	1.9	6.5	-12	41.6
FB0080100CT1000SZA		C	N	100	±20	2.5	100	125	—	—	987	38	26	1500	15	3.2	2.6	8	17.8
		C	P	-100	±20	-2.5	220	255	—	—	1228	41	29	4180	19	3.4	2.9	-6.2	17.8

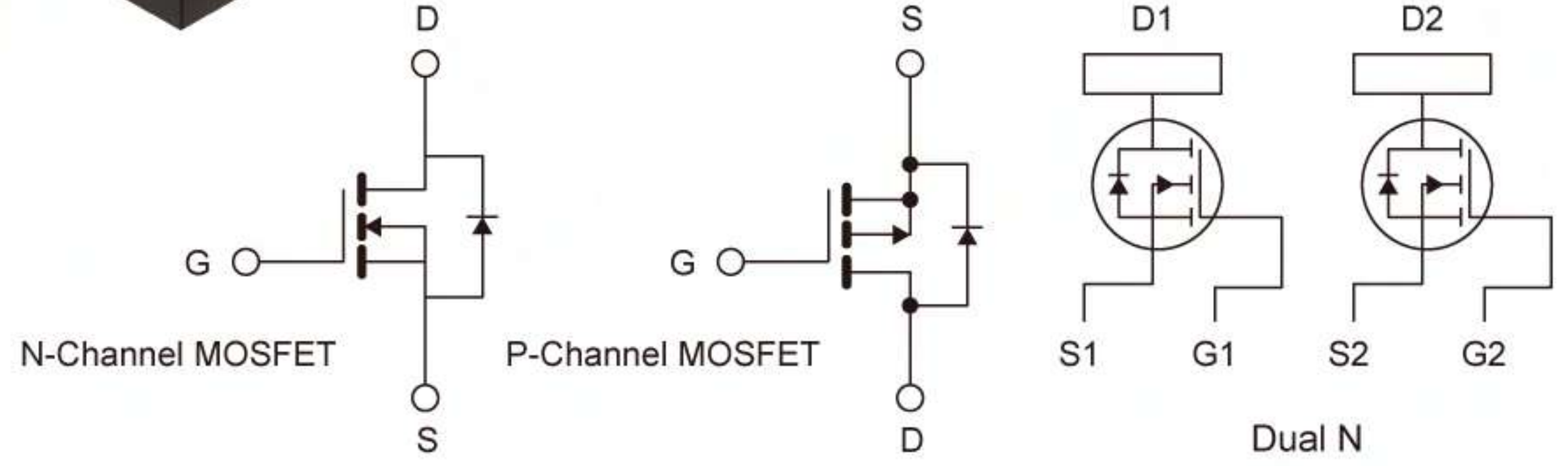
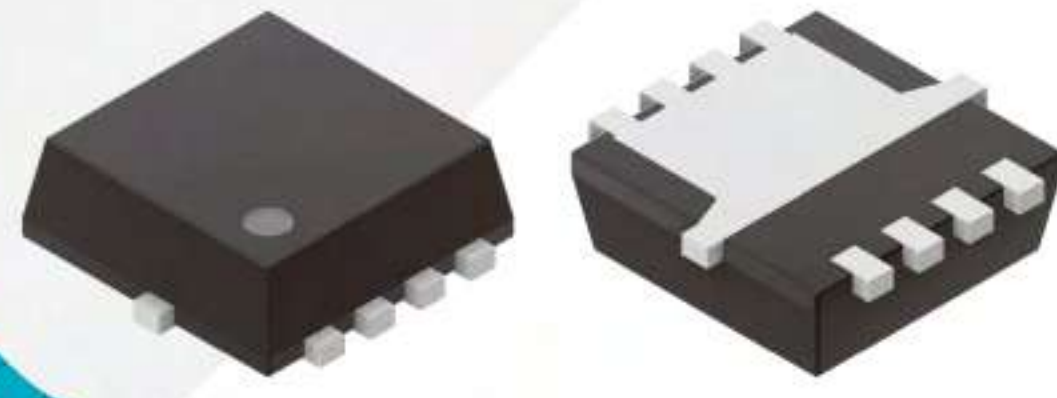
\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V

NOTE : All Specifications subject to change without notice.



# PRPAK3x3 Series



FUZETEC - QFN/DFN Package

Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	I <sub>D</sub> (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FB0500020SN0029Szb	•	S	N	20	±12	1	—	2.9	3.5	5.5	4239	688	643	170	58.6	5.8	20.6	50	35
FB0280030SN0180Szb	•	S	N	30	±20	2.5	18	30	—	—	572	81	65	130	7.2	1.4	2.2	28	20
FB0460030SN0090Szb	•	S	N	30	±20	2.5	9	15	—	—	1317	163	131	115	12.8	3.3	6.5	46	29
FB0640030SN0055Szb	•	S	N	30	±20	2.5	5.5	9	—	—	2295	267	210	110	20	7.6	7.2	64	35.7
FB0370030SN0120Szb	•	S	N	30	±20	2.5	12	16.5	—	—	896	126	108	118	9.82	2.24	5.54	37	26
FB0800030SN0040Szb	•	S	N	30	±20	2.5	4	6	—	—	3075	400	315	126	31.6	6.07	13.8	80	43.4
FB0400030SN0038Szb	•	S	N	30	±20	2.5	3.8	5.8	—	—	2461	383	261	89	23.4	11.4	8.2	40	36
FB0400030SN0038Szb-1	•	S	N	30	±20	2.5	3.8	5.8	—	—	2461	383	261	89	23.4	11.4	8.2	40	26
FB0300030SN0063Szb	••	S	N	30	±20	2.5	6.3	9	—	—	814	498	41	50	8	2.4	3.2	30	24
FB0320030SN0052Szb	••	S	N	30	±20	2.2	5.2	9	—	—	1113	436	55	47	9	2.8	3.6	32	25
FB0350030SN0039Szb	••	S	N	30	±20	2.2	3.9	6.1	—	—	1476	556	70	57	14.7	5.8	3.5	35	27
FB0280030SN0080Szb	••	S	N	30	±20	2.2	8	11	—	—	693	332	34	57	7.1	2.2	3.1	28	21
FB0120030SN0098Szb	••	S	N	30	±20	2.3	9.8	15.8	—	—	562	274	28	44	4.5	2.4	1.6	12	21
FB0360030SN0125Szb	••	S	N	30	±20	2.4	12.5	19	—	—	396	260	18	53	4.2	2.6	1.4	36	26
FB0300030SN0050Szb	••	S	N	30	±20	2.5	5	7.5	—	—	882	380	65	83	16.5	2.9	3.5	30	24
FB1000030SN0024Szb	••	S	N	30	±20	2.3	F	3.8	—	—	2859	1259	229	124	51.5	8	10.6	100	41.6
FB0400030SN0028Szb	••	S	N	30	±20	2.2	2.8	4.5	—	—	2235	956	156	57	20.4	6.7	8.6	40	26
FB0400030SN0046SEB	•	S	N	30	±20	2.4	4.6	6.5	—	—	1949	282	230	81	17.6	6.4	8.1	40	27.8
FB0500030SN0049Szb	•	S	N	30	±12	1.0	4.9	5.5	7.5	—	3100	405	310	157	32	6.1	14	50	31
FB0400040SN0065Szb	•	S	N	40	±20	2.5	6.5	9	—	—	2354	215	175	130	20	5.8	9.5	40	36.7
FB0430040SN0085Szb	••	S	N	40	±20	2.5	8.5	15	—	—	690	193	38	49	5.8	3	1.2	43	27.8
FB0330040SN0150Szb	••	S	N	40	±20	2.4	15	23	—	—	376	240	19	57	3.8	2.8	1.1	33	31.3
FB1000040SN0027Szb	••	S	N	40	±20	2.2	2.7	4	—	—	2643	861	81	124	45.8	8	10.6	100	41.7
FB0500040SN0039Szb	••	S	N	40	±20	2.3	3.9	6	—	—	1587	491	61	97	24.9	6.5	2.6	50	62.5
FB0330060SN0200Szb	•	S	N	60	±20	2.5	20	24	—	—	2423	145	97	386	19.3	7.1	7.6	33	42
FB0440060SN0120Szb	•	S	N	60	±20	2.5	12	15	—	—	3240	210	146	344	28.7	10.5	9.9	44	42
FB0330060SN0120Szb	••	S	N	60	±20	2.3	12	18	—	—	760	272	26	190	15.8	3.1	4.4	33	20.8
FB0300060SN0085Szb	••	S	N	60	±20	2.3	8.5	12.5	—	—	1270	479	40	128	15	3.5	4.2	30	27.7
FB0290060SN0150Szb	••	S	N	60	±20	2.3	15	25	—	—	512	171	20	176	11.7	2	3.5	29	20.8
FB0600060SN0052Szb	••	S	N	60	±20	2.3	5.2	7.8	—	—	1625	438	25	174	33.4	5.8	7.9	60	44.6
FB0350065SN0175Szb	•	S	N	65	±20	2.5	17.5	22	—	—	1683	144	98	338	19.3	7.1	7.6	35	42
FB0600065SN0052Szb	••	S	N	65	±20	2.3	5.2	7.8	—	—	1625	438	25	174	33.4	5.8	7.9	60	44.6
FB0200100SN0470Szb	•	S	N	100	±20	2.5	47	50	—	—	3848	137	82	2585	55	7.5	7	20	52.1
FB0070020DN0170Sze	•	D	N	20	±12	1.2	—	17	27	—	735	83	81	168	9.86	1.41	2.48	7	1.47
FB0120020DN0105Sze	•	D	N	20	±12	1.2	—	10.5	15	—	1660	163	150	242	23	3.4	7.9	12	2
FB0280030DN0180Szb	•	D	N	30	±20	2.5	18	30	—	—	572	81	65	130	7.2	1.4	2.2	28	20.8
FB0300030DN0140Szb	•	D	N	30	±20	2.5	14	19.5	—	—	896	126	108	137	9.82	2.24	5.54	30	20.8
FB0370030DN0100Szb	••	D	N	30	±20	2.5	10	14	—	—	745	460	65	78	7.8	2.3	3.3	37	20.8
FB0160060DN0420Szb	•	D	N	60	±20	2.5	42	52	—	—	1027	65	46	798	19	2.6	4.1	16	20.8
FB0290060DN0150Szb	••	D	N	60	±20	2.3	15	21	—	—	760	272	26	237	15.8	3.1	4.4	29	20.8
FB0050100DN3300Szb	•	D	N	100	±20	3	330	360	—	—	508	29	16.4	3168	9.6	1.83	1.85	4.6	15.6
FB0080100DN1000Szb	••	D	N	100	±20	2.3	100	130	—	—	180	32	2.5	349	3.49	0.66	0.92	8	12.5
FB0080100DN1520Szb	•	D	N	100	±20	2.5	152	158	—	—	1077	46	32	3876	25.5	4.2	4.3	8	1.67
FB0480020SP0090Szb	•	S	P	-20	±8	-1.0	—	9	11.5	15	5783	509	431	567	63	9.1	13	-48	29
FB0320030SP0200Szb	•	S	P	-30	±25	-2.5	20	32	—	—	1345	194	158	250	12.5	5.4	5	-32	29

\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V

NOTE : All Specifications subject to change without notice.

## PRPAK3x3 Series

Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	ID (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FB0420030SP0140Szb	•	S	P	-30	±20	-2.5	14	22	—	—	2215	310	237	308	22	8.7	7.2	-42	37
FB0500030SP0087Szb	•	S	P	-30	±25	-2.5	8.7	13.5	—	—	3448	508	421	261	30	10	10.4	-50	69
FB0320030SP0085SEB	•	S	P	-30	±20	-2.5	8.5	14	—	—	4319	439	299	255	30	10	10.4	-32	96
FB0500030SP0095Szb	•	S	P	-30	±20	-2.3	9.5	16	—	—	3614	372	316	544	57.3	10	7.6	-50	50
FB0150040SP0400Szb	•	S	P	-40	±20	-2.5	40	65	—	—	1004	108	80	360	9	2.54	3.1	-15	31.3
FB0400040SP0130Szb	•	S	P	-40	±20	-2.5	13	20	—	—	3500	323	222	363	27.9	7.7	7.5	-40	31.3
FB0130060SP0900Szb	•	S	P	-60	±20	-2.5	90	115	—	—	1080	73	50	1062	11.8	1.9	6.5	-13	31.3
FB0260060SP0250Szb	•	S	P	-60	±20	-2.5	25	33	—	—	3635	224	141	625	25	6.7	5.5	-26	31.25
FB0020150SP7800Szb	•	S	P	-150	±20	-4	780	980	—	—	706	23	13	8424	10.8	3.1	2.2	-2	7.8
FB0190030DP0400Szb	•	D	P	-30	±20	-2.5	40	62	—	—	930	148	115	392	9.8	2.2	3.4	-19	20.8
FB0190030CT0340Szb	•	C	N	30	±20	2.5	34	50	—	—	416	62	51	170	5	1.1	2.6	19	20.8
	•	C	P	-30	±20	-2.5	36	60	—	—	930	148	115	353	9.8	2.2	3.4	-18.7	20.8
FB0240030CT0200Szb	•	C	N	30	±20	2.5	20	30	—	—	572	81	65	144	7.2	1.4	2.2	24	20
	•	C	P	-30	±20	-2.5	18	30	—	—	2213	311	235	396	22	5.4	7	-27	20
FB0050060CT0500Szb	•	C	N	60	±20	2.5	50	70	—	—	1027	65	46	950	19	2.6	4.1	5	2
	•	C	P	-60	±20	-2.5	100	120	—	—	1447	97.3	70	986	9.86	3.08	2.95	-3.8	2
FB0060100CT1000Szb	•	C	N	100	±20	2.7	100	125	—	—	987	38	26	1500	15	3.2	2.6	6	1.5
	•	C	P	-100	±20	-2.5	220	255	—	—	1228	41	29	4180	19	3.4	2.9	-4.1	1.5
FB0070030CT0280SZE	•	C	N	30	±20	2.5	28	40	—	—	416	62	51	140	5.0	1.11	2.61	7	2.5
	•	C	P	-30	±20	-2.5	32	56	—	—	930	148	115	314	9.8	2.2	3.4	-7	2.5
FB0100030CT0180SZE	•	C	N	30	±20	2.5	18	28	—	—	572	81	65	130	7.2	1.4	2.2	10	2.6
	•	C	P	-30	±20	-2.5	30	55	—	—	930	148	115	294	9.8	2.2	3.4	-8	2.6
FB0060030CT0350SZE	•	C	N	30	±20	2.5	35	55	—	—	416	62	51	175	5.0	1.11	2.61	6	1.5
	•	C	P	-30	±20	-2.5	50	80	—	—	585	100	85	320	6.4	2.3	2	-4.9	1.5
FB0070040CT0300SZE	•	C	N	40	±20	2.5	30	50	—	—	593	76	56	165	5.5	1.25	2.5	7.3	2.6
	•	C	P	-40	±20	-2.5	45	70	—	—	1004	108	80	405	9	2.54	3.1	-6.2	2.6
FB0020100CT3100SZE	•	C	N	100	±20	2.5	310	320	—	—	508	29	16	1240	4	1.2	1.3	2	1.5
	•	C	P	-100	±20	-2.5	650	700	—	—	553	29	20	6045	9.3	1.75	1.25	1.5	1.5

\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

NOTE : All Specifications subject to change without notice.

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V

# DFN Families



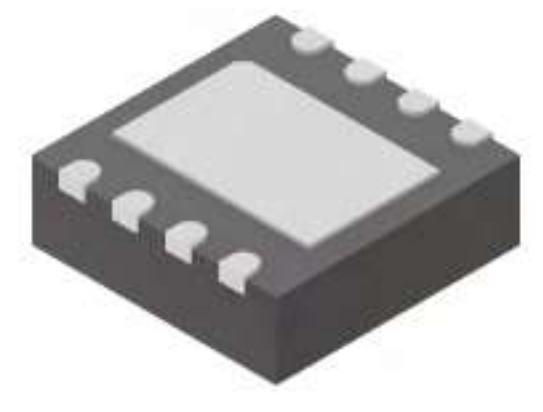
DFN2x2 Series



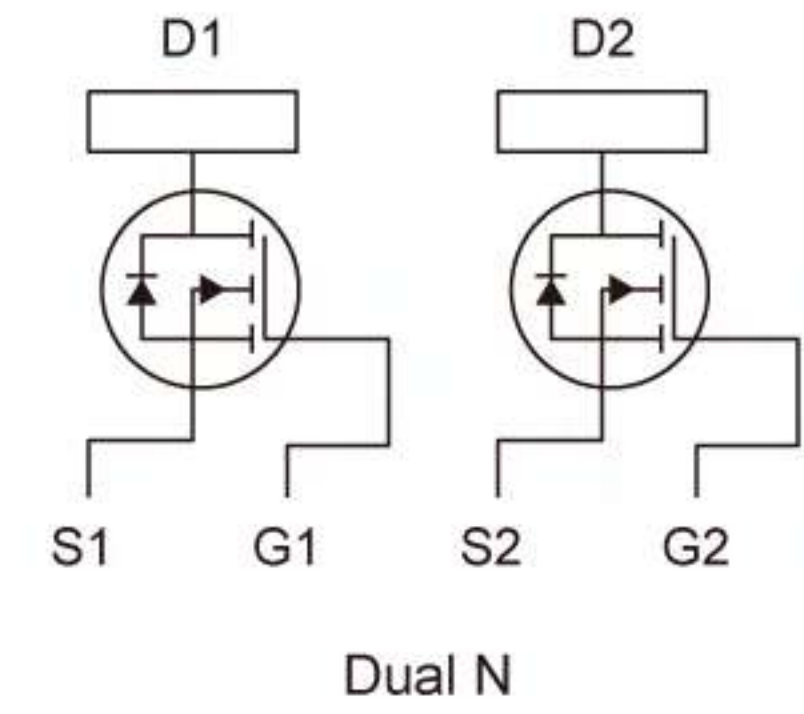
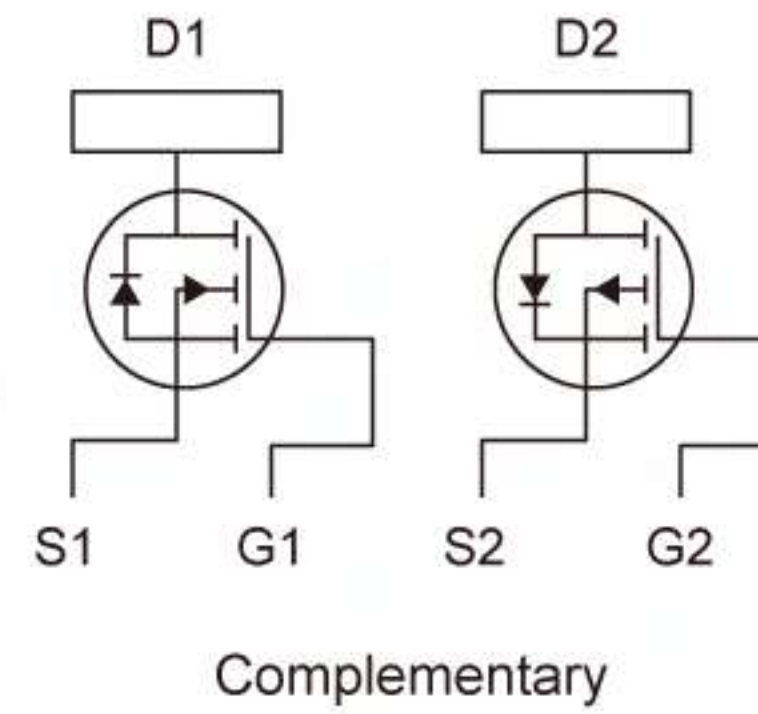
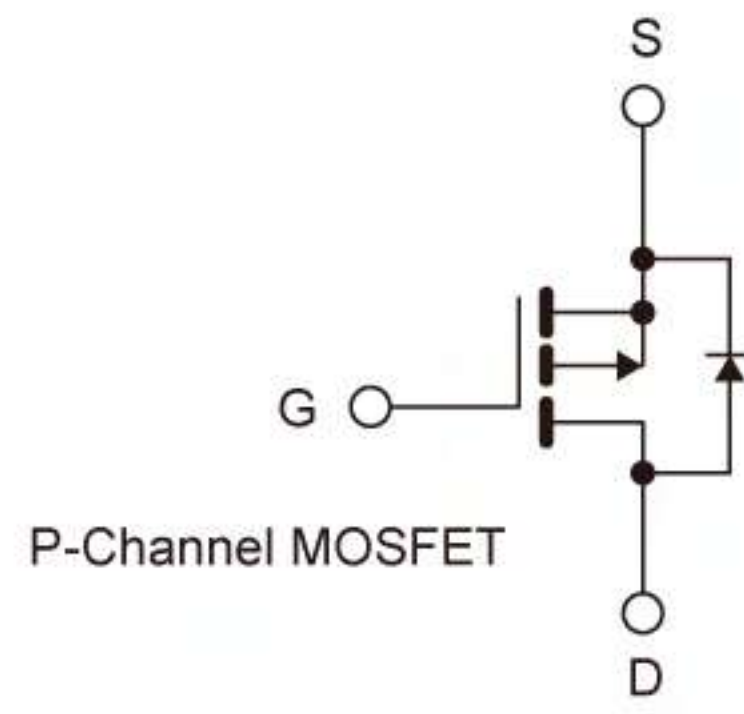
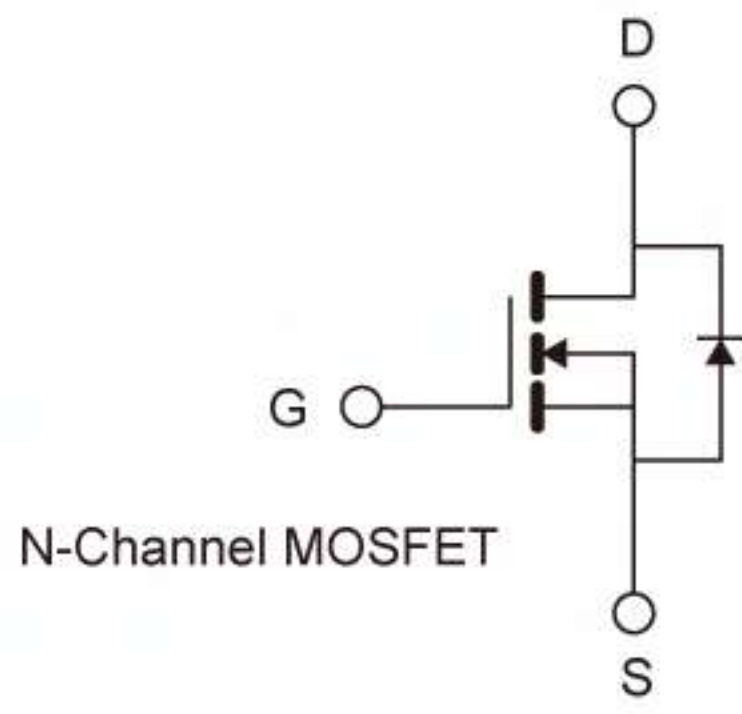
DFN2x3 Series



DFN3x3 Series



DFN3.3x3.3 Series

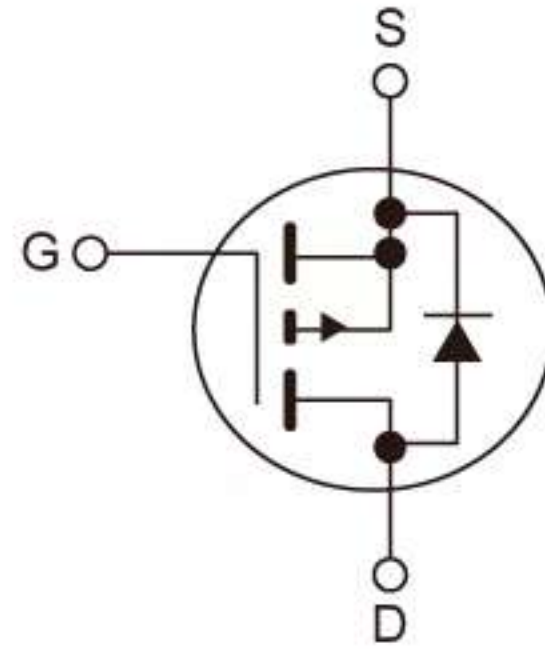
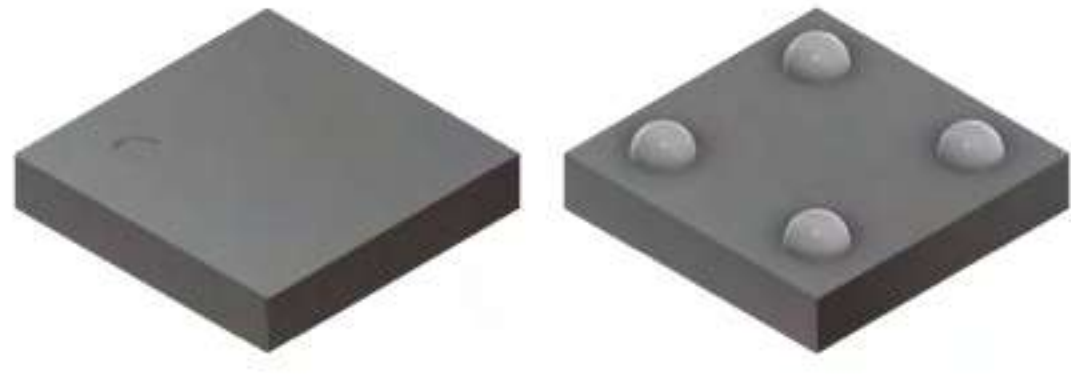


Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	I <sub>D</sub> (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FC0560012DN0043SZA	•	D	N	12	±8	1.0	—	4.3	5.6	7.6	3165	380	325	163	38	4.5	12	56	31
FC0560012DN0043SZA-1	•	D	N	12	±8	1.0	—	4.3	5.6	7.6	3165	380	325	163	38	4.5	12	56	31
FC0560020DN0058SZA	•	D	N	20	±8	1.0	—	5.8	7	12	3165	380	325	220	38	4.5	12	56	31
FC0300030DN0120SZA	•	D	N	30	±20	2.5	12	15	—	—	940	131	109	115	9.6	3.8	3.4	30	1.9
FC0050020CT0400SZB	•	C	N	20	±12	1.0	—	40	55	70	310	49	35	184	4.6	0.7	1.5	5	1.56
	•	C	P	-20	±12	-1.0	—	100	145	200	677	82	73	1010	10.1	1.21	2.46	-4.5	1.56
FC0060020DN0220SZB	•	D	N	20	±12	1.5	—	22	29	—	630	66	63	229	10.4	1.3	2.6	6	1.4
FC0080020DN0160SZC	•	D	N	20	±12	1.2	—	16	27.5	—	735	83	81	170	10.6	2.2	4.1	8	1.56
FC0100020DN0090SZC	•	D	N	20	±12	1.2	—	9	13.5	—	1647	170	148	198	22	3.1	8.2	9.5	1.56
FC0080020DN0130SZC	•	D	N	20	±12	1.2	—	13	20	—	734	84	80	138	10.6	2.2	4.1	8	1.56
FC0110020DN0072SZC	•	D	N	20	±12	1.5	—	7.2	10.2	—	1767	184	155	166	23	3.5	8.4	11	1.56
FC0370030SN0120SZD	•	S	N	30	±20	2.5	12	16.5	—	—	896	126	108	118	9.82	2.24	5.54	37	26
FC0080030SP0320SZD	•	S	P	-30	±20	-2.5	32	53	—	—	930	148	115	314	9.8	2.2	3.4	-8	2.8
FC0500020SN0020SZE	•	S	N	20	±12	1.0	—	2	2.7	—	4307	501	321	154	77	8.7	14	50	83
FC0500020SP0050SZE	•	S	P	-20	±12	-1.0	—	5	6.5	8.5	4307	501	321	380	76	9	13.7	-50	83
FC0500060SN0085SZE	•	S	N	60	±20	2.5	8.5	12	—	—	3307	201	151	485	57	8.7	14	50	41
FC0500030SN0022SZE	•	S	N	30	±20	2.3	2.2	3.1	—	—	4776	659	626	98	44.5	14.3	19.9	50	56.5
FC0500030SP0072SZE	•	S	P	-30	±20	-2.5	7.2	12	—	—	3450	255	140	432	60	9	15	-50	41
FC0450075SN0120SZE	•	S	N	75	±20	2.5	12	14.5	—	—	3120	140	110	731	60.9	8.1	17.9	45	41

\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V

NOTE : All Specifications subject to change without notice.



# CSP Series

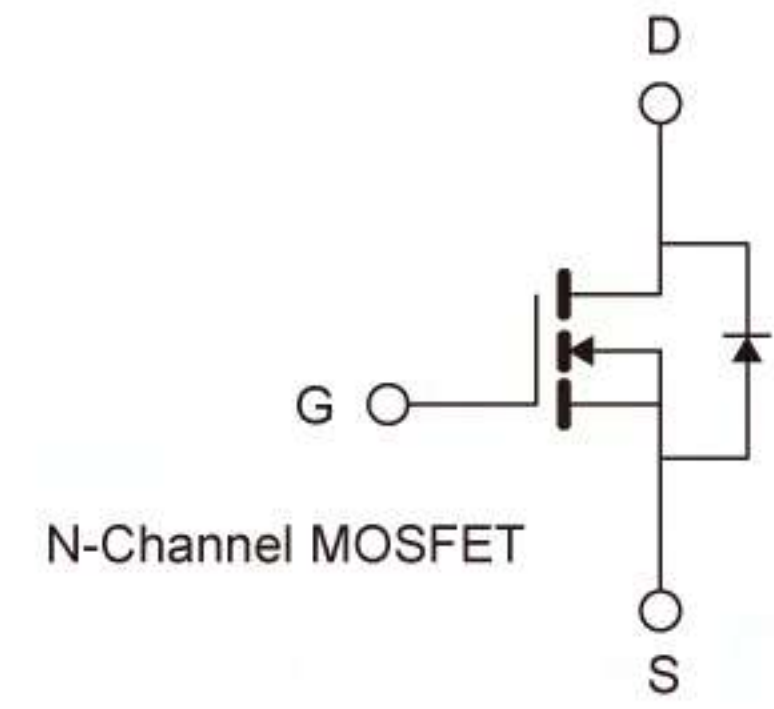
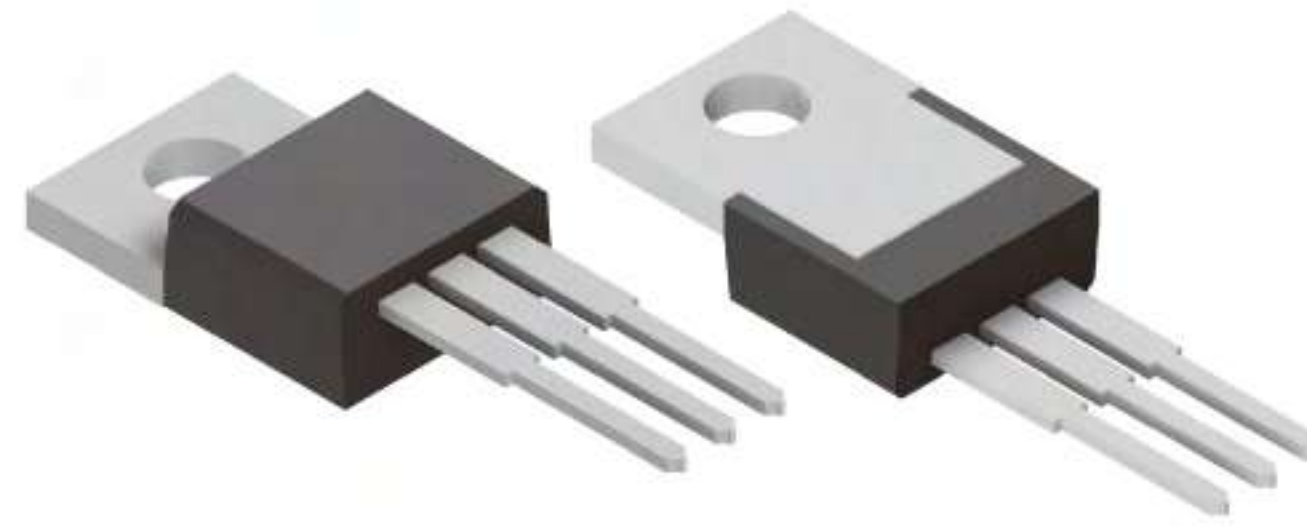
Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	I <sub>D</sub> (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FC0060020DN0360SZS	•	D	N	20	±12	1.2	—	36	55	—	—	—	—	374	10.4	—	—	6	1.6
FC0060024DN0450SZS	•	D	N	24	±12	1.2	—	45	70	—	—	—	—	540	12	—	—	6	1.6

\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

NOTE : All Specifications subject to change without notice.

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V

# TO263 Series



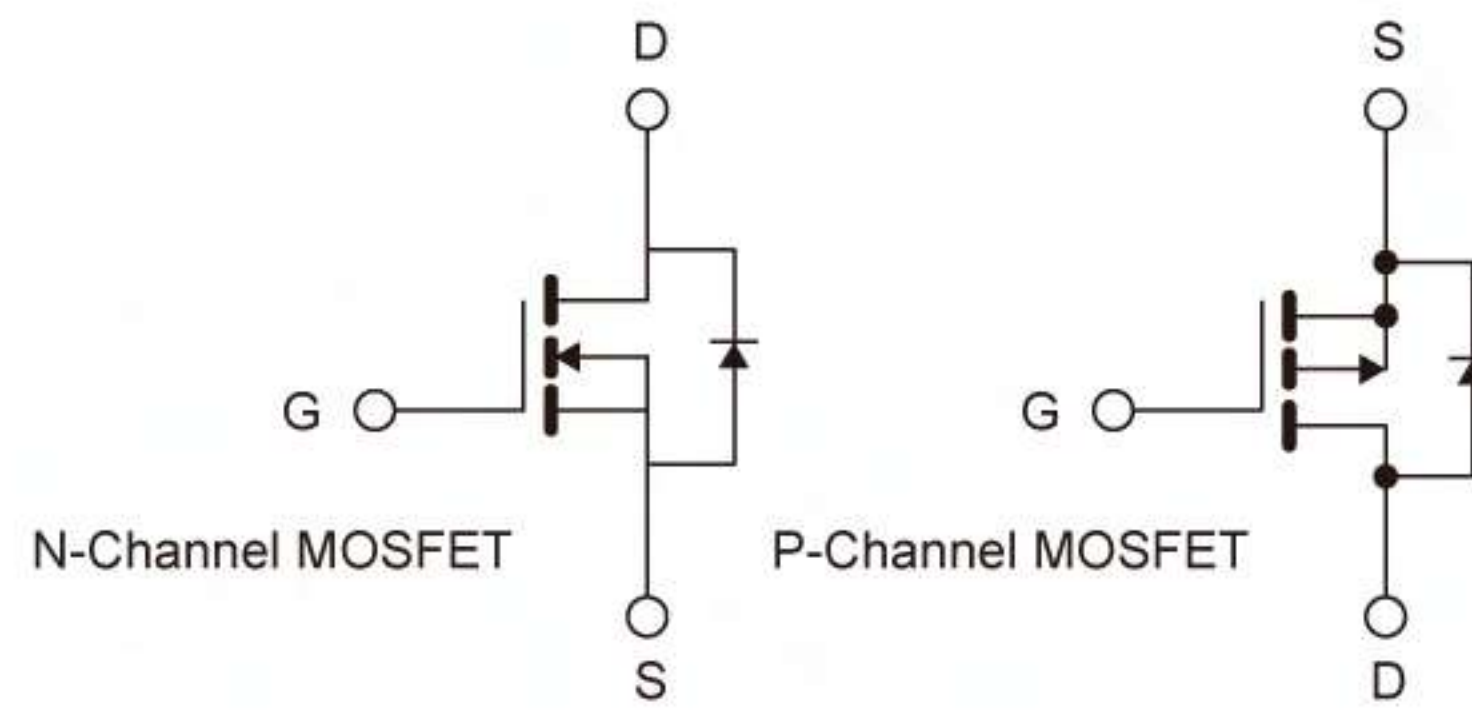
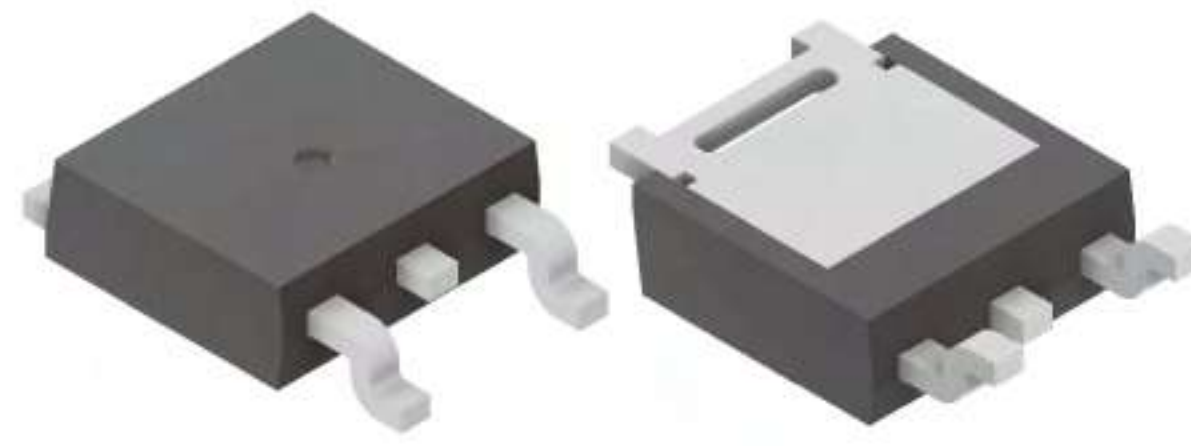
Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	I <sub>D</sub> (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FH0650030SN0085SZZ	•	S	N	30	±20	2.5	8.5	14	—	—	1317	163	131	107	12.6	4.2	5.1	65	58
FH0900030SN0060SZZ	•	S	N	30	±20	2.5	6	9	—	—	2295	267	210	120	20	7.6	7.2	90	74
FH2050030SN0024SBZ	•	S	N	30	±20	2.5	2.4	3.2	—	—	5850	720	525	137	56.9	13.8	23.5	205	187
FH1650040SN0033SAZ	•	S	N	40	±20	4.5	3.3	—	—	—	4711	869	367	215	65	24	21	165	149
FH1700040SN0028SZZ	••	S	N	40	±20	2.2	2.8	3.6	—	—	3972	1119	82	252	90	12	18.5	170	178
FH1700040SN0026SZZ	••	S	N	40	±20	2.2	2.6	3.6	—	—	3862	1214	117	179	68.9	10.3	14.5	170	178
FH1700040SN0028SAZ	••	S	N	40	±20	4	2.8	—	—	—	3739	1267	106	168	60	14.7	13.9	170	178
FH0450060SN0200SZZ	•	S	N	60	±20	2.5	20	24	—	—	2423	145	97	386	19.3	7.1	7.6	45	74
FH0980060SN0082SAZ	•	S	N	60	±20	4.5	8.2	—	—	—	1990	400	180	291	35.5	8.6	15.9	98	149
FH1600060SN0048SAZ	•	S	N	60	±20	4.5	4.8	—	—	—	5580	571	278	402	83.7	28.6	29.3	160	214
FH0800060SN0085SZZ	•	S	N	60	±20	2.5	8.5	12	—	—	3307	201	151	485	57	8.7	14	80	41
FH1400060SN0052SZZ	•	S	N	60	±20	2.5	5.2	7	—	—	4706	325	245	390	75	15.5	20.3	140	166
FH1100060SN0045SZZ	••	S	N	60	±20	2.3	4.5	6.5	—	—	3458	1522	22	261	58	16	4	110	113
FH0800075SN0120SZZ	•	S	N	75	±20	2.5	12	14.5	—	—	3120	140	110	731	60.9	8.1	17.9	80	125
FH1080080SN0065SAZ	•	S	N	80	±20	4.5	6.5	—	—	—	5580	571	278	544	83.7	28.6	29.3	108	149
FH1200080SN0065SZZ	••	S	N	80	±20	2.3	6.5	9	—	—	2860	410	38	260	40	7.2	6.5	120	150
FH1800080SN0034SZZ	••	S	N	80	±20	2.3	3.4	4.5	—	—	6304	1647	62	374	110	23	17	180	272
FH0360100SN0400SZZ	•	S	N	100	±20	2.5	40	50	—	—	2270	130	90	1824	45.6	6.7	11.8	36	125
FH0580100SN0220SAZ	•	S	N	100	±20	4.5	22	—	—	—	1890	268	67	607	27.6	11.4	7.9	58	149
FH1040100SN0120SAZ	•	S	N	100	±20	4.5	12	—	—	—	5580	571	278	1008	84	28	26	104	156
FH0400100SN0220SZZ	•	S	N	100	±20	2.5	22	28	—	—	1930	245	125	792	36	5	10	40	62.5
FH0850100SN0080SZZ	••	S	N	100	±20	2.3	8	10.5	—	—	3320	605	20	360	45	9.5	4.8	85	125
FH0850100SN0080SAZ	••	S	N	100	±20	4	8	—	—	—	3148	693	26	360	45	9.5	4.8	85	125
FH3080100SN0022SAZ	••	S	N	100	±20	4	2.2	—	—	—	13362	1917	387	440	200	53.3	49	308	429
FH1200100SN0045SCZ	••	S	N	100	±20	4	4.5	—	—	—	4725	609	14	324	72	28	15	120	250
FH1000120SN0062SZZ	••	S	N	120	±20	4	6.2	—	—	—	6494	819	31	682	110	24.7	33.1	100	178
FH1000150SN0090SZZ	••	S	N	150	±20	4	9	—	—	—	5870	404	9.3	900	100	24.9	30.8	100	178
FH0180200SN1700SZZ	•	S	N	200	±20	2.5	170	180	—	—	2047	109	70	7650	45	9	10.5	18	83
FH0450060SP0250SZZ	•	S	P	-60	±20	-2.5	25	33	—	—	3635	224	141	625	25	6.7	5.5	-45	86.8
FH0350100SP0500SZZ	•	S	P	-100	±20	-2.5	50	55	—	—	6516	223	125	4600	92	17.5	14	-35	104

\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

NOTE : All Specifications subject to change without notice.

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V

# TO252 Series



Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	I <sub>D</sub> (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FD0300030SN0180SZZ		S	N	30	±20	2.5	18	30	—	—	572	81	65	112	6.2	2.4	2.5	30	25
FD0550030SN0085SZZ		S	N	30	±20	2.5	8.5	14	—	—	1317	163	131	107	12.6	4.2	5.1	55	41
FD0520030SN0080SSZ	•	S	N	30	±20	2.2	8	11	—	—	693	332	34	57	7.1	2.2	3.1	52	34.7
FD0800030SN0055SZZ		S	N	30	±20	2.5	5.5	9	—	—	2295	267	210	110	20	7.6	7.2	80	53
FD0780030SN0058SSZ	•	S	N	30	±20	2.5	5.8	8.5	—	—	882	380	65	96	16.5	2.9	3.5	78	50
FD0240030SN0250SZZ		S	N	30	±20	2.5	25	38	—	—	416	62	51	123	4.9	1.66	1.85	24	20.8
FD0430030SN0120SZZ		S	N	30	±20	2.5	12	18	—	—	940	131	109	118	9.8	4.2	3.6	43	37.5
FD0960030SN0040SZZ		S	N	30	±20	2.5	4	6	—	—	3075	400	315	126	31.6	8.6	11.7	96	62.5
FD0700030SN0024SBZ		S	N	30	±20	2.5	2.4	3.2	—	—	4345	340	225	137	56.9	13.8	23.5	70	60
FD0520030SN0080SZZ	•	S	N	30	±20	2.2	8	11	—	—	693	332	34	57	7.1	2.2	3.1	52	34.7
FD0780030SN0058SZZ	•	S	N	30	±20	2.5	5.8	8.5	—	—	882	380	65	96	16.5	2.9	3.5	78	50
FD0720030SN0055SZZ		S	N	30	±20	2.2	5.5	9	—	—	1907	301	243	116	21	6.2	10.5	72	45
FD0230040SN0260SZZ		S	N	40	±20	2.5	26	35	—	—	593	76	56	143	5.5	1.25	2.5	23	25
FD0420040SN0115SZZ		S	N	40	±20	2.5	11.5	16.5	—	—	1314	120	88	123	10.7	3.3	4.2	42	34.7
FD0600040SN0075SZZ		S	N	40	±20	2.5	7.5	10	—	—	2332	193	138	141	18.8	4.7	8.2	60	44.6
FD0330040SN0170SZZ		S	N	40	±20	2.5	17	22	—	—	1013	107	76	170	10	2.55	4.8	33	31.3
FD0750040SN0065SZZ		S	N	40	±20	2.5	6.5	9	—	—	3354	275	204	182	28	7.85	12.5	75	52.1
FD0700040SN0033SAZ		S	N	40	±20	4.0	3.3	—	—	—	4711	869	367	215	65	24	21	70	125
FD1000040SN0024SZZ	•	S	N	40	±20	2.2	2.4	3.6	—	—	3972	1119	82	216	90	12	18.5	100	125
FD0460040SN0090SZZ	•	S	N	40	±20	2.2	9	14	—	—	669	241	19	111	12.3	2.4	2.5	46	31
FD1140040SN0032SZZ	•	S	N	40	±20	2.2	3.2	5.3	—	—	2648	899	71	73	22.7	7.5	5.5	114	73.5
FD1000045SN0022SBZ	•	S	N	45	±20	2.3	2.2	3.2	—	—	3516	998	109	141	64	9.3	13.4	100	83
FD1000040SN0026SAZ	•	S	N	40	±20	3.6	2.6	—	—	—	3739	1267	106	156	60	14.7	13.9	100	83
FD0170060SN0750SZZ		S	N	60	±20	2.5	75	90	—	—	695	148	7	413	5.5	1.8	2.4	17	42
FD0170060SN0700SAZ		S	N	60	±20	2.5	70	90	—	—	695	148	7	385	5.5	1.8	2.4	17	42
FD0230060SN0300SZZ		S	N	60	±20	2.5	30	38	—	—	1378	86	64	378	12.6	3.2	6.3	23	34.7
FD0350060SN0200SZZ		S	N	60	±20	2.5	20	24	—	—	2423	145	97	386	19.3	7.1	7.6	35	45
FD0100060SN0900SZZ		S	N	60	±20	2.5	90	100	—	—	511	38	25	441	4.9	1.8	2.2	10	20.8
FD0200060SN0400SZZ		S	N	60	±20	2.5	40	50	—	—	1027	65	46	760	19	2.5	5	20	31.3
FD0470060SN0120SZZ		S	N	60	±20	2.5	12	15	—	—	3240	210	146	344	28.7	10.5	9.9	47	52
FD0470060SN0120SAZ		S	N	60	±20	5.0	12	—	—	—	2186	260	167	404	33.7	10.6	9.9	47	52
FD0760060SN0082SAZ		S	N	60	±20	4.5	8.2	—	—	—	1990	400	180	291	35.5	8.6	15.9	76	89.3
FD0750060SN0085SZZ		S	N	60	±20	2.5	8.5	12	—	—	3307	201	151	485	57	8.7	14	75	41
FD0750060SN0085SAZ		S	N	60	±20	4.5	8.5	—	—	—	3307	201	151	485	57	8.7	14	75	41
FD1120060SN0052SZZ		S	N	60	±20	2.5	5.2	7	—	—	4706	325	245	390	75	15.5	20.3	112	104
FD0580060SN0085SZZ	•	S	N	60	±20	2.3	8.5	12.5	—	—	1270	479	40	128	15	3.5	4.2	58	52
FD0720060SN0055SZZ	•	S	N	60	±20	2.3	5.5	8.5	—	—	1625	438	25	184	33.4	5.8	7.9	72	52
FD0120080SN1000SZZ		S	N	80	±20	2.5	100	115	—	—	1090	60	41	1860	18.6	3.9	3.2	11.8	31.3
FD0620075SN0120SZZ		S	N	75	±20	2.5	12	14.5	—	—	3120	140	110	731	60.9	8.1	17.9	62	89
FD0480080SN0065SZZ	•	S	N	80	±20	2.3	6.5	8.5	—	—	2860	410	38	260	40	7.2	6.5	48	56
FD0600080SN0087SZZ	•	S	N	80	±20	2.3	8.7	12.5	—	—	1738	317	12	252	29	7.7	5.3	60	52
FD0120100SN1120SZZ		S	N	100	±20	2.5	112	120	—	—	1535	60	37	2934	26.2	4.6	5.1	12	34.7
FD0050100SN3100SZZ		S	N	100	±20	2.5	310	320	—	—	508	29	16.4	2976	9.6	1.83	1.85	5.4	20.8
FD0110100SN1520SZZ		S	N	100	±20	2.5	152	158	—	—	1077	46	32	3876	25.5	4.2	4.3	11	31
FD0220100SN0470SZZ		S	N	100	±20	2.5	47	50	—	—	3848	137	82	2820	60	9.7	11.8	22	52.1

\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V

NOTE : All Specifications subject to change without notice.

## TO252 Series

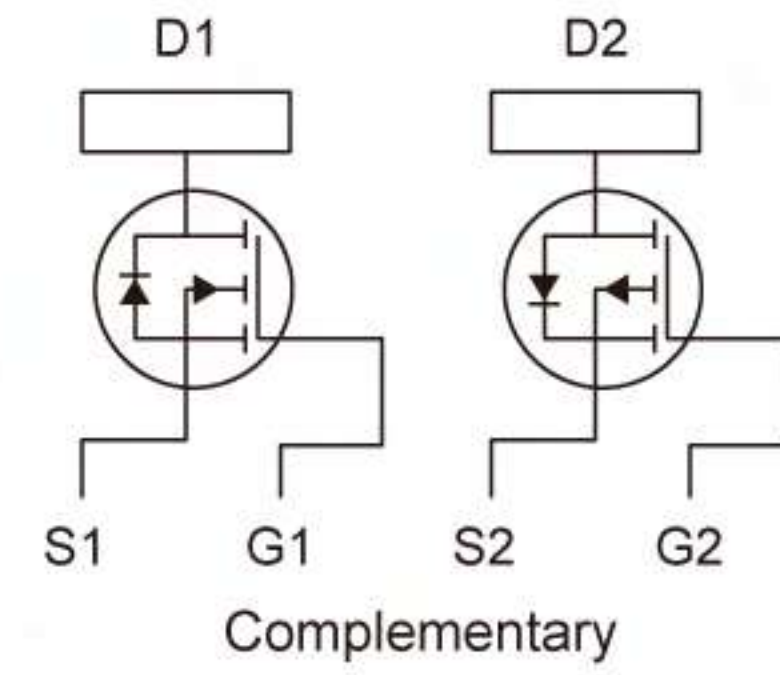
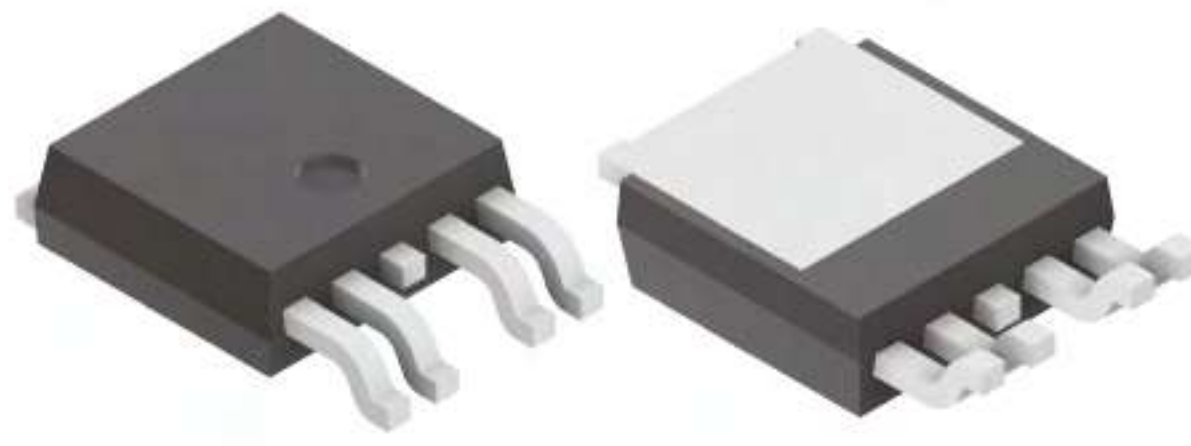
Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	ID (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FD0240100SN0470SAZ		S	N	100	±20	4	47	—	—	—	3848	137	82	2256	48	8.5	10.5	24	54
FD0450100SN0220SAZ		S	N	100	±20	4.5	22	—	—	—	1890	268	67	607	27.6	11.4	7.9	45	90
FD0560100SN0135SAZ		S	N	100	±20	4.5	13.5	—	—	—	2947	390	177	655	48.5	13.7	18.9	56	83
FD0400100SN0220SZZ		S	N	100	±20	2.5	22	28	—	—	1930	245	125	792	36	5	10	40	62.5
FD0140100SN0660SZZ		S	N	100	±20	2.9	66	85	—	—	620	105	63	785	11.9	2.6	1.7	14	30
FD0300100SN0260SZZ		S	N	100	±20	2.5	26	32	—	—	3307	201	151	1482	57	8.7	14	30	52
FD0150100SN1000SZZ		S	N	100	±20	2.9	100	110	—	—	1009	32	23	1630	16.3	3.68	2.97	14.6	30
FD0640100SN0140SZZ		S	N	100	±20	2.4	14	17	—	—	4708	326	247	1050	75	15.5	20.3	64	89
FD0730100SN0085SZZ	•	S	N	100	±20	2.3	8.5	11	—	—	3320	605	20	383	45	9.5	4.8	73	108
FD0380100SN0200SZZ	•	S	N	100	±20	2.2	20	30	—	—	849	185	8	358	17.9	2.8	5.2	38	52
FD0580100SN0115SZZ	•	S	N	100	±20	2.4	11.5	15	—	—	2550	305	12	334	29	6.5	5.5	58	73
FD1120100SN0045SCZ	•	S	N	100	±20	4	4.5	—	—	—	4725	609	14	324	72	28	15	112	104
FD0480120SN0300SAZ	•	S	N	120	±20	4	30	—	—	—	1362	192	3.7	618	20.6	6.9	5.1	48	113
FD0200150SN0880SZZ		S	N	150	±20	2.5	88	100	—	—	2285	110	83	2209	25.1	6.8	12.6	20	72.6
FD0230150SN0560SAZ	•	S	N	150	±20	4	56	—	—	—	1190	73	4	1288	23	5.8	4.2	23	72.6
FD0230150SN0560SSZ	•	S	N	150	±20	2.5	56	68	—	—	1090	93	6	1064	19	4.5	2.6	23	72.6
FD0300150SN0460SZZ		S	N	150	±20	2.5	46	50	—	—	3755	207	160	1840	40	10	21	30	115
FD0180200SN1700SZZ		S	N	200	±20	2.5	170	180	—	—	2047	109	70	7650	45	9	10.5	18	83
FD0700030SP0072SZZ		S	P	-30	±20	-2.5	7.2	12	—	—	3450	255	140	432	60	9	15	-70	90
FD0200030SP0420SZZ		S	P	-30	±20	-2.5	42	78	—	—	585	100	85	256	6.1	3.1	1.8	-20	25
FD0350030SP0200SZZ		S	P	-30	±20	-2.5	20	32	—	—	1345	194	158	250	12.5	5.4	5	-35	34.7
FD0450030SP0150SZZ		S	P	-30	±25	-2.5	15	25	—	—	2215	310	237	330	22	8.7	7.2	-45	45
FD0150030SP0620SZZ		S	P	-30	±20	-2.5	62	110	—	—	463	82	68	324	5.22	1.25	2.3	-15.4	20.8
FD0270030SP0300SZZ		S	P	-30	±20	-2.5	30	55	—	—	930	148	115	294	9.8	2.2	3.4	-27	31.3
FD0570030SP0105SZZ		S	P	-30	±25	-2.5	10.5	18.5	—	—	3448	508	421	347	33	10.7	12.8	-57	52.1
FD0160040SP0650SZZ		S	P	-40	±20	-2.5	65	100	—	—	620	69	52	377	5.8	1.2	2.1	-16	25
FD0270040SP0320SZZ		S	P	-40	±20	-2.5	32	46	—	—	1415	134	102	368	11.5	3.5	3.3	-27	35
FD0230040SP0400SZZ		S	P	-40	±20	-2.5	40	65	—	—	1004	108	80	360	9	2.54	3.1	-23	31.3
FD0520040SP0130SZZ		S	P	-40	±20	-2.5	13	20	—	—	3500	323	222	363	27.9	7.7	7.5	-52	52.1
FD0120060SP1400SZZ		S	P	-60	±20	-2.5	140	190	—	—	715	51	34	819	5.85	2.9	1.8	-12	25
FD0180060SP0700SZZ		S	P	-60	±20	-2.5	70	105	—	—	1447	97.3	70	690	9.86	3.08	2.95	-18	34.7
FD0290060SP0350SZZ		S	P	-60	±20	-2.5	35	55	—	—	2217	310	238	840	24	8.6	7.3	-29	2
FD0080060SP1800SZZ		S	P	-60	±20	-2.5	180	266	—	—	531	59	38	828	4.6	1.4	1.62	-8	20.8
FD0130060SP0900SZZ		S	P	-60	±20	-2.5	90	115	—	—	1080	73	50	1062	11.8	1.9	6.5	-13	31.3
FD0350060SP0250SZZ		S	P	-60	±20	-2.5	25	33	—	—	3635	224	141	625	25	6.7	5.5	-35	52.1
FD0090100SP2100SZZ		S	P	-100	±20	-2.5	210	240	—	—	1228	41	29	3990	19	3.4	2.9	-8.7	2
FD0040100SP6500SZZ		S	P	-100	±20	-2.5	650	700	—	—	553	29	20	2925	4.5	1.14	1.5	-4.1	20.8
FD0180100SP0950SZZ		S	P	-100	±20	-2.5	95	110	—	—	3029	129	76	4228	44.5	9.13	5.93	-18	54
FD0300100SP0500SZZ		S	P	-100	±20	-2.5	50	55	—	—	6516	223	125	4600	92	17.5	14	-30	104

\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

NOTE : All Specifications subject to change without notice.

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V

# TO252-4L Series



Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	I <sub>D</sub> (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FD0240030CT0270SZZ	•	C	N	30	±20	2.5	27	40	—	—	416	62	51	135	5.0	1.11	2.61	24	20.8
	•	C	P	-30	±20	-2.5	32	56	—	—	930	148	115	314	9.8	2.2	3.4	-22	20.8
FD0300030CT0180SZZ	•	C	N	30	±20	2.5	18	28	—	—	572	81	65	130	7.2	1.4	2.2	30	25
	•	C	P	-30	±20	-2.5	30	55	—	—	930	148	115	294	9.8	2.2	3.4	-24	25
FD0230040CT0280SZZ	•	C	N	40	±20	2.5	28	42	—	—	593	76	56	154	5.5	1.25	2.5	23	25
	•	C	P	-40	±20	-2.5	40	65	—	—	1004	108	80	360	9	2.54	3.1	-20	31.3
FD0120040CT0300SZZ	•	C	N	40	±20	2.5	30	50	—	—	593	76	56	165	5.5	1.25	2.5	12	7.8
	•	C	P	-40	±20	-2.5	70	100	—	—	620	69	52	406	5.8	1.2	2.1	-8.5	7.8
FD0230060CT0320SZZ	•	C	N	60	±20	2.5	32	38	—	—	1378	86	64	402	12.56	3.24	6.31	23	34.7
	•	C	P	-60	±20	-2.5	70	105	—	—	1447	97	70	690	9.86	3.08	2.95	-18	34.7
FD0200060CT0400SZZ	•	C	N	60	±20	2.5	40	50	—	—	1027	65	46	760	19	2.5	5	20	50
	•	C	P	-60	±20	-2.5	100	125	—	—	1080	73	50	1180	11.8	1.9	6.5	-12	50
FD0080100CT1000SZZ	•	C	N	100	±20	2.5	100	125	—	—	987	38	26	1500	15	3.2	2.6	8	1.5
	•	C	P	-10	±20	-2.5	22	255	—	—	1228	41	29	4180	19	3.4	2.9	-6.2	1.5

\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V

NOTE : All Specifications subject to change without notice.

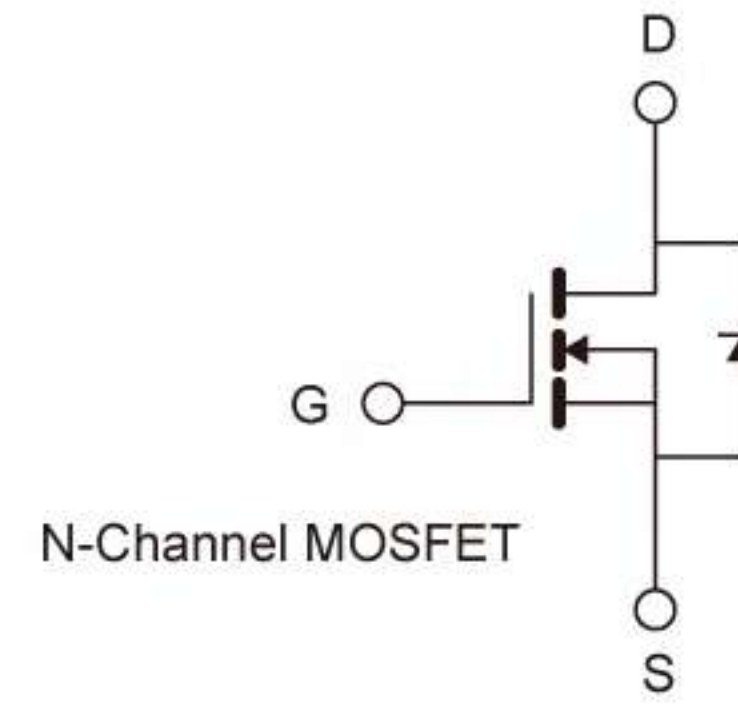








# TO247 Series



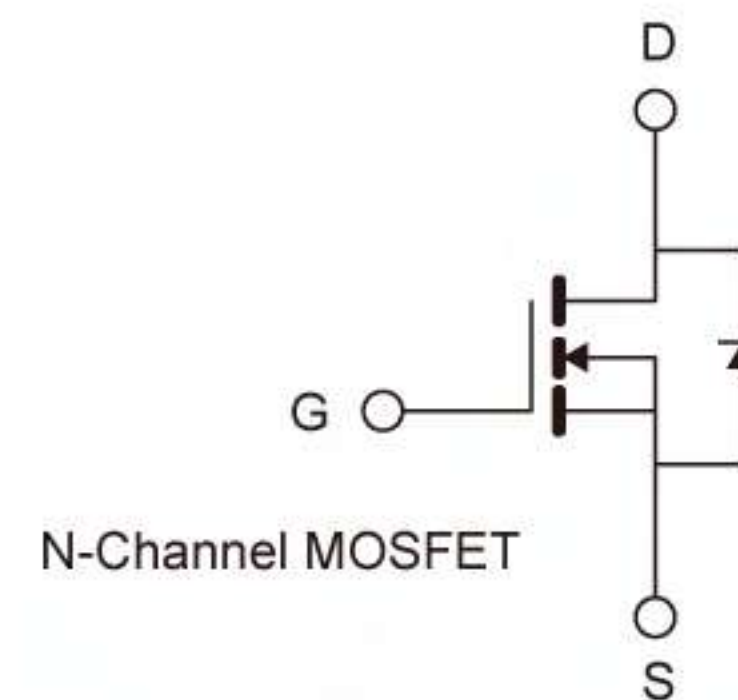
Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	ID (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FX3160100SN0022SAZ	•	S	N	100	±20	4	2.2	—	—	—	13362	1917	387	466	212	59	53	316	333

\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V

NOTE : All Specifications subject to change without notice.

# TOLL Series



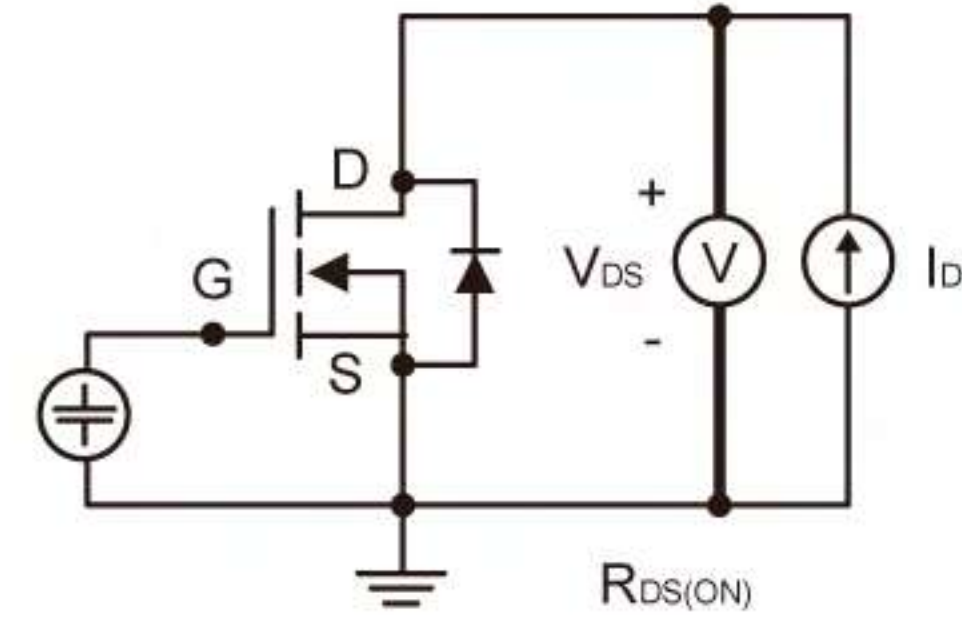
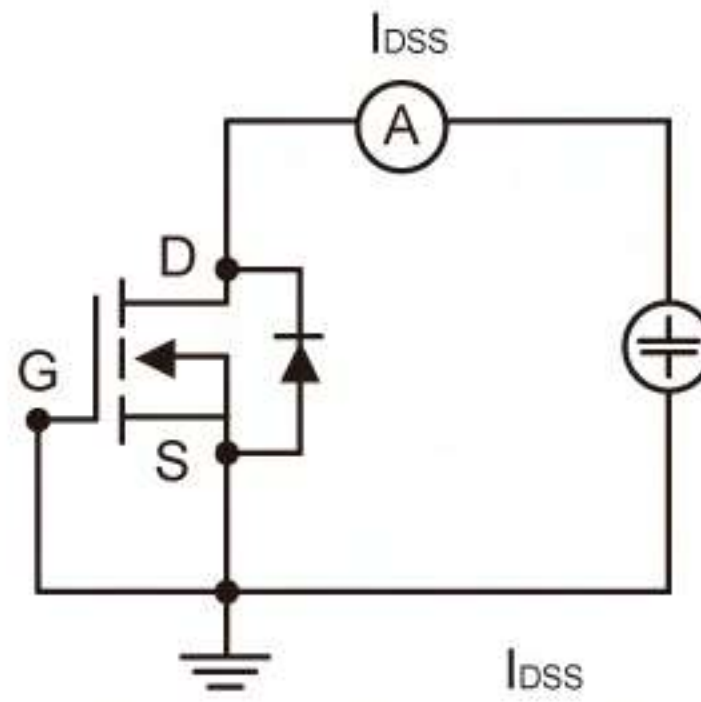
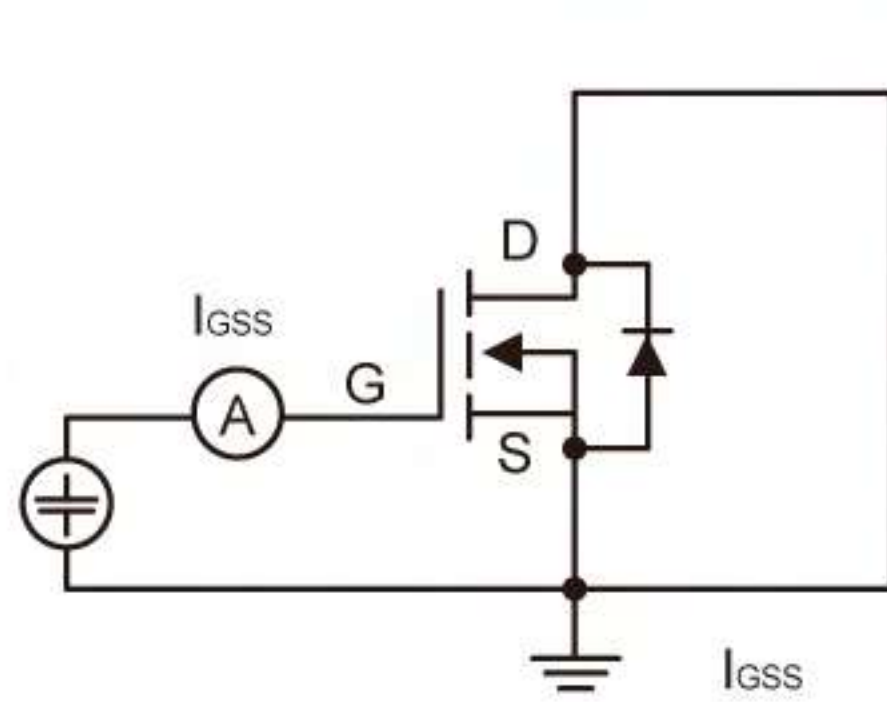
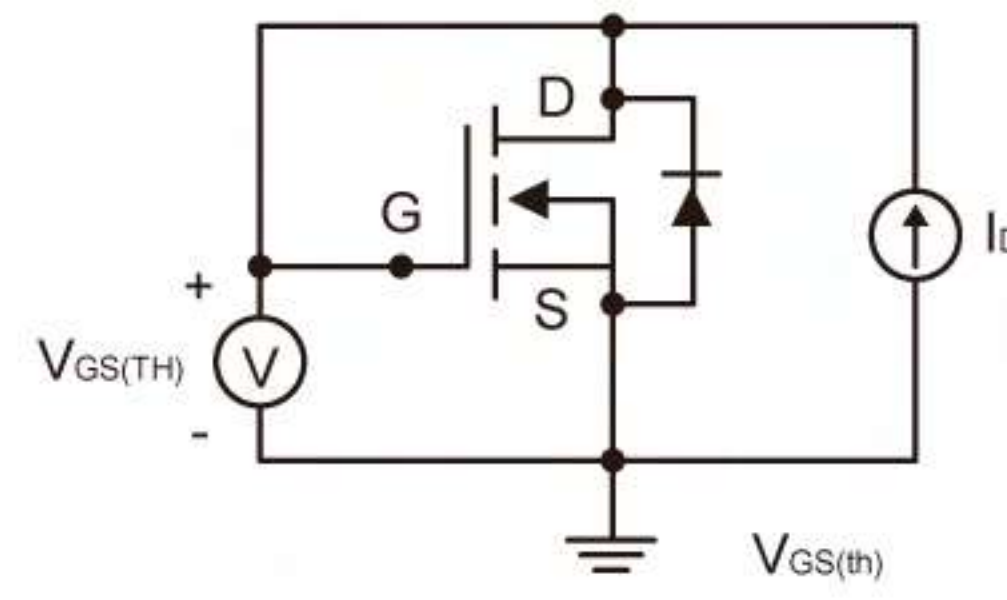
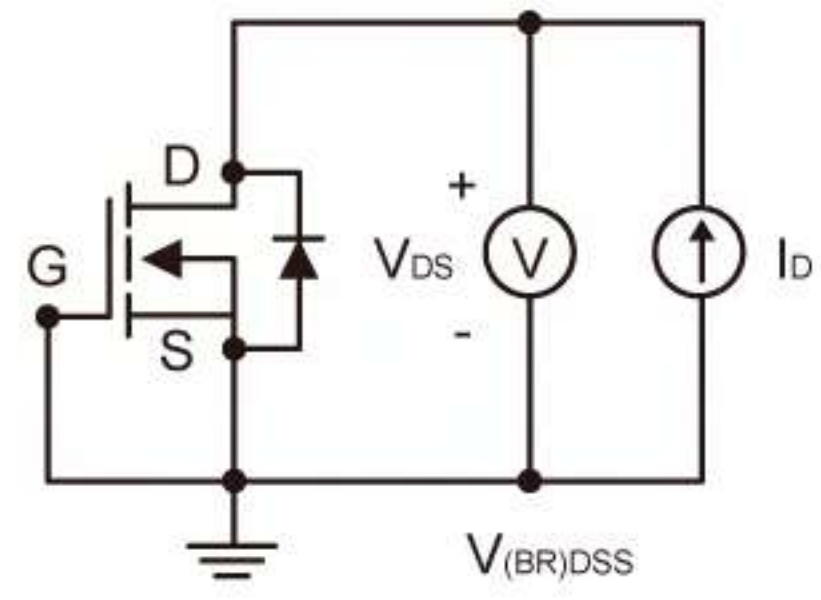
Fuzetec Part No.	SGT ESD	Con fig.	Type	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS(th)</sub> (Max.V)	R <sub>DS(ON)</sub> (mΩ) Max. @V <sub>GS</sub> =				C <sub>iss</sub> (pF)	C <sub>oss</sub> (pF)	C <sub>rss</sub> (pF)	FOM	Q <sub>g</sub> (nC)	Q <sub>gs</sub> (nC)	Q <sub>gd</sub> (nC)	ID (A)	P <sub>D</sub> (W)
							10V	4.5V	2.5V	1.8V									
FY2500040SN0016SZZ	•	S	N	40	±20	2.3	1.6	2.2	—	—	6780	2100	225	202	126	17	28	250	149
FY2500040SN0016SAZ	•	S	N	40	±20	4	1.6	—	—	—	6601	2073	248	173	108	25.4	26.8	250	149
FY2230060SN0020SZZ	•	S	N	60	±20	2.3	2	3	—	—	5471	1847	86	204	102	15.7	27.9	223	178
FY3160100SN0019SAZ	•	S	N	100	±20	4	1.9	—	—	—	13362	1917	387	403	212	59	53	316	333

\* Configuration : A = Asymmetric, C=Complementary, D=Dual, S=Single

\* FOM (Figure of Merit) is calculated by R<sub>DS(ON)</sub> \* Q<sub>g</sub>, by the sequence of R<sub>DS(ON)</sub> @ 10V, 4.5V, 2.5V and 1.8 V

NOTE : All Specifications subject to change without notice.

# Glossary of Terms

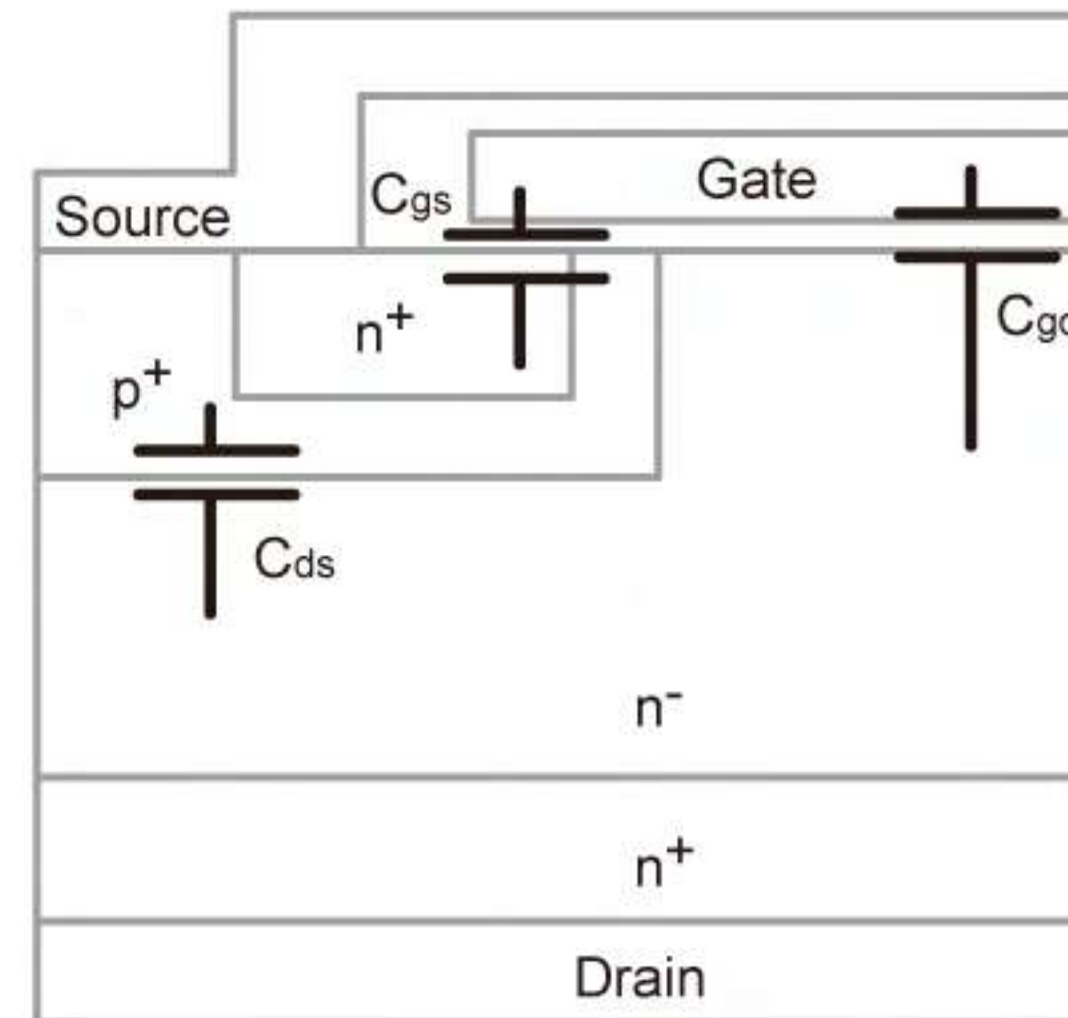
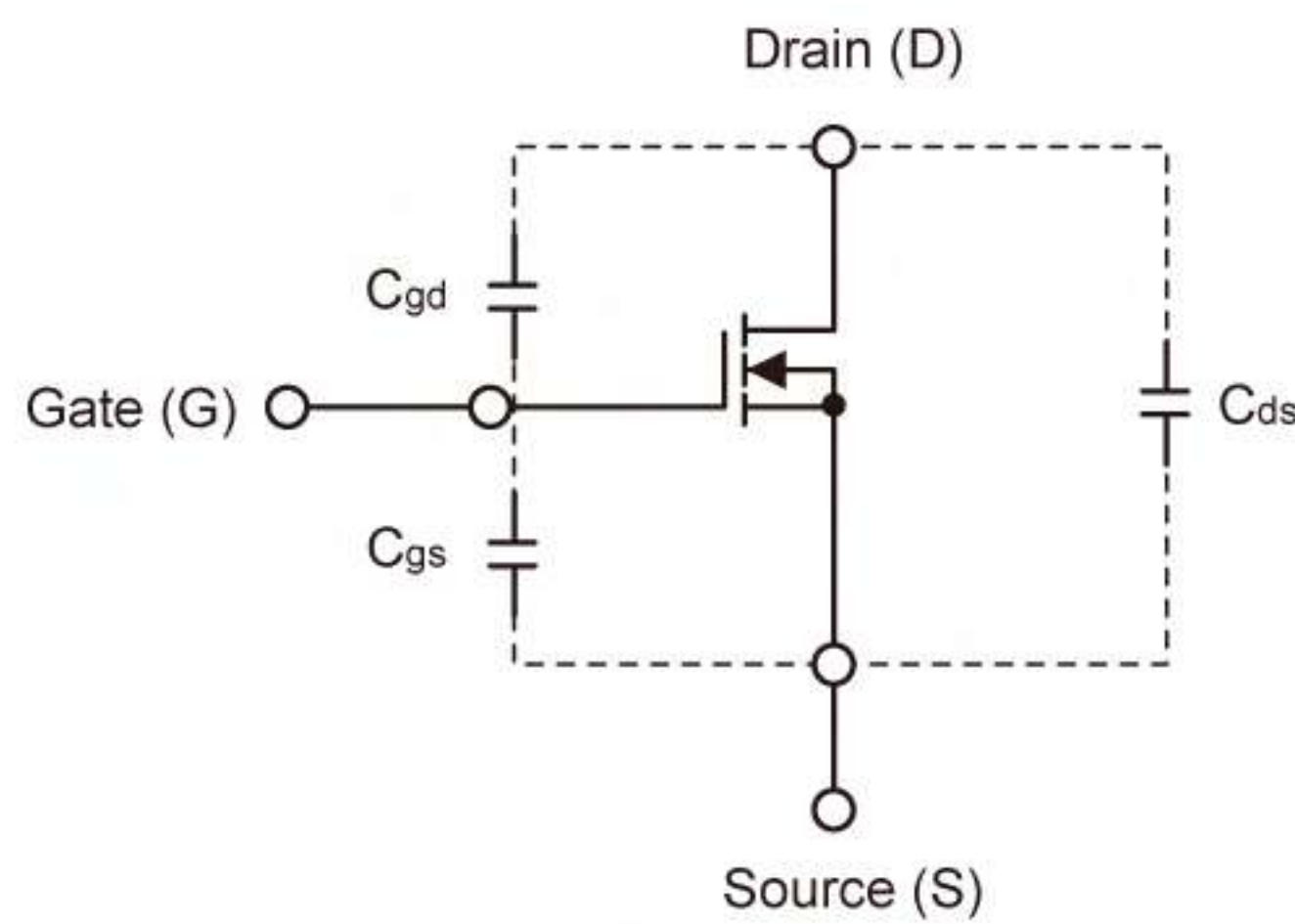


Electrical Characteristics (TA = 25°C Unless Otherwise Specified)

STATIC

Symbol	Parameter	Limit	Min	Typ	Max	Unit	Description
$V_{(BR)DSS}$	Drain-source breakdown voltage	$V_{GS} = 0V$ , $I_D = -250\mu A$	-20			V	$V_{(BR)DSS}$ is the drain-source voltage at which no more than the specified drain current will flow at the specified temperature and with zero gate-source voltage.
$V_{GS(th)}$	Gate threshold voltage	$V_{DS} = V_{GS}$ , $I_D = -250\mu A$	-0.4		-1	V	The MOSFET $V_{GS(th)}$ or gatethreshold voltage is the voltage between the gate and source that is needed to turn on the MOSFET. In other words, if $V_{GS}$ is at least as high as the threshold voltage, the MOSFET turns on.
$I_{GSS}$	Gate-source leakage current	$V_{DS} = 0V$ , $V_{GS} = \pm 8V$			$\pm 10$	$\mu A$	The leakage current that flows through the gate terminal at a specified gate-source voltage.
$I_{DSS}$	Zero gate voltage drain current	$V_{DS} = -20V$ , $V_{GS} = 0V$			-1	$\mu A$	The drain-source leakage current at a specified drain-source voltage when the gate-source voltage is zero.
$R_{DS(on)}$	Drain-source on-resistance	$V_{GS} = -4.5V$ , $I_D = -2.8A$		90	110	m $\Omega$	Drain-source on-resistance ( $R_{DS(on)}$ ) is the resistance between the drain and the source of a MOSFET when a specific gate-to-source voltage ( $V_{GS}$ ) is applied to bias the device to the on state.
		$V_{GS} = -2.5V$ , $I_D = -2.0A$		110	150		

# Glossary of Terms

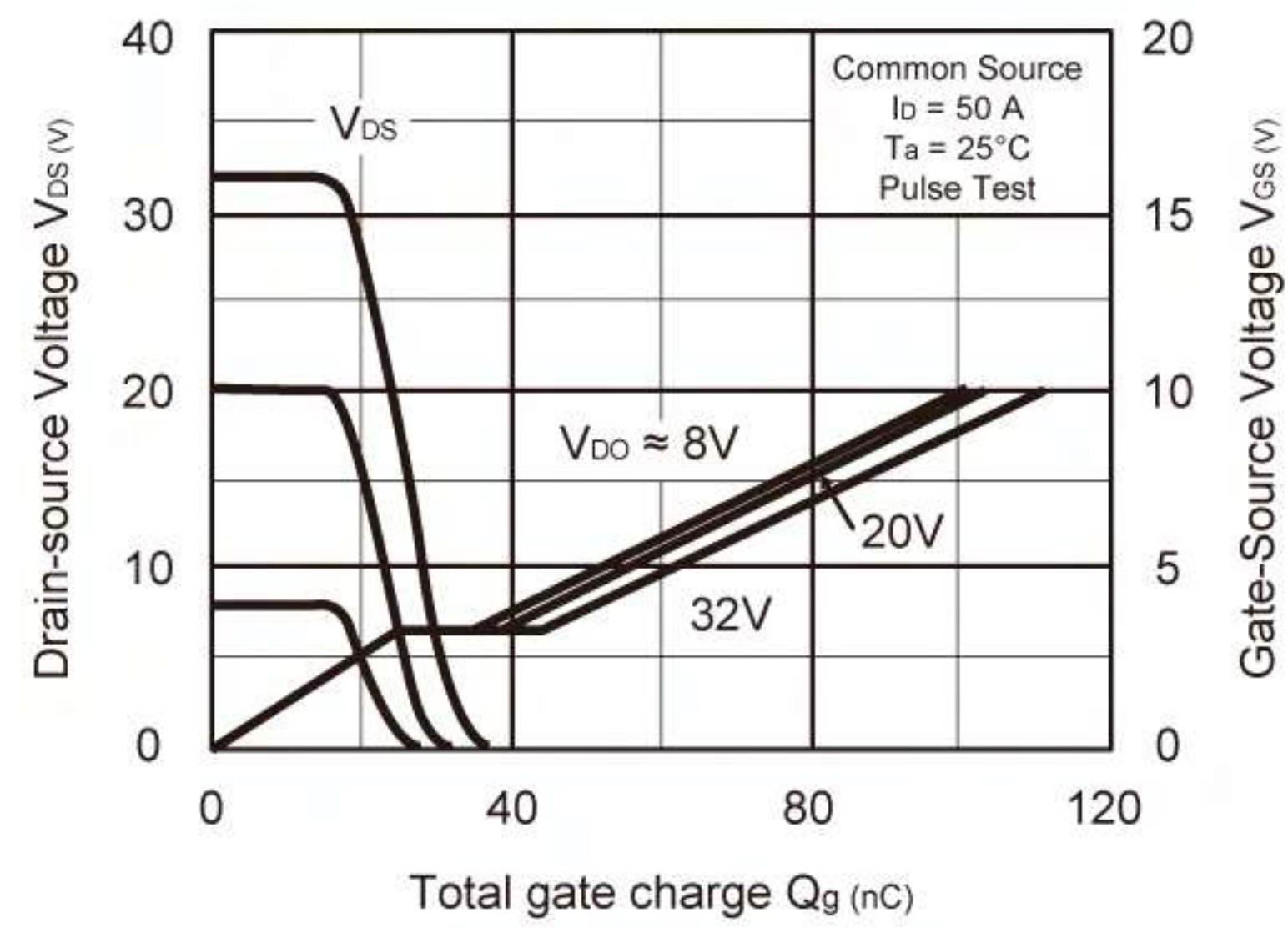
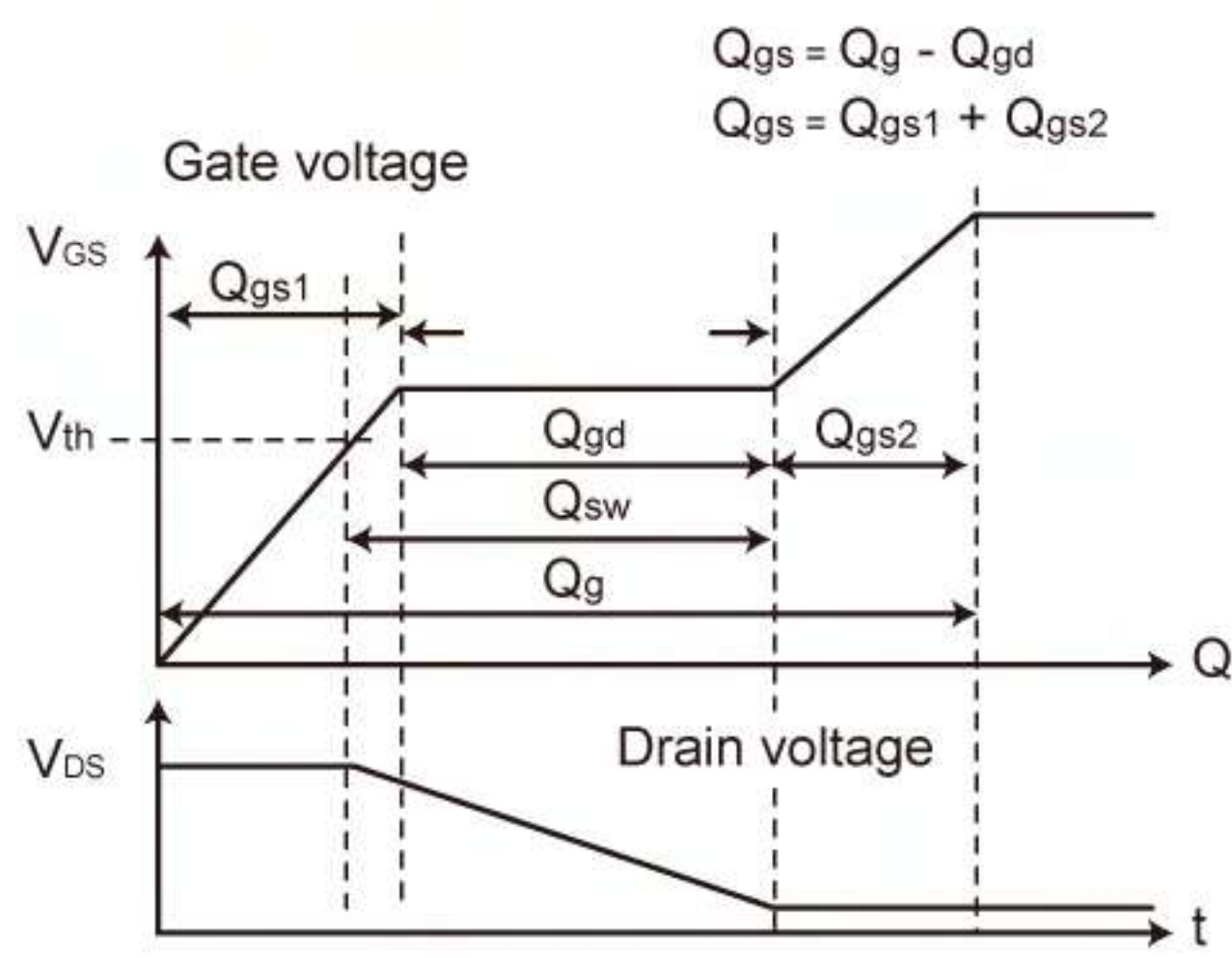


Input capacitance ( $C_{iss}$ ) =  $C_{gd} + C_{gs}$   
 Output capacitance ( $C_{oss}$ ) =  $C_{ds} + C_{gd}$   
 Reverse transfer capacitance ( $C_{rss}$ ) =  $C_{gd}$

Electrical Characteristics (TA =25°C Unless Otherwise Specified)

DYNAMIC

Symbol	Parameter	Limit	Min	Typ	Max	Unit	Description
$C_{iss}$	Input capacitance			510			<p>The input capacitance measured between the gate and source terminals with the drain shorted to the source for AC signals.</p> <p><math>C_{iss}</math> is made up of the gate to drain capacitance <math>C_{gd}</math> in parallel with the gate to source capacitance <math>C_{gs}</math>, or <math>C_{iss} = C_{gs} + C_{gd}</math></p>
$C_{oss}$	Output capacitance	$V_{DS} = -15V,$ $V_{GS} = 0V,$ $f = 1.0MHz$		53		pF	<p>This is the output capacitance measured between the drain and source terminals with the gate shorted to the source for AC voltages.</p> <p><math>C_{oss}</math> is made up of the drain to source capacitance <math>C_{ds}</math> in parallel with the gate to drain capacitance <math>C_{gd}</math>, or <math>C_{oss} = C_{ds} + C_{gd}</math></p>
$C_{rss}$	Reverse transfer capacitance			17			<p>The reverse transfer capacitance measured between the drain and gate terminals with the source connected to ground.</p> <p>The reverse transfer capacitance is equal to the gate to drain capacitance.  <math>C_{res} = C_{gd}</math></p>



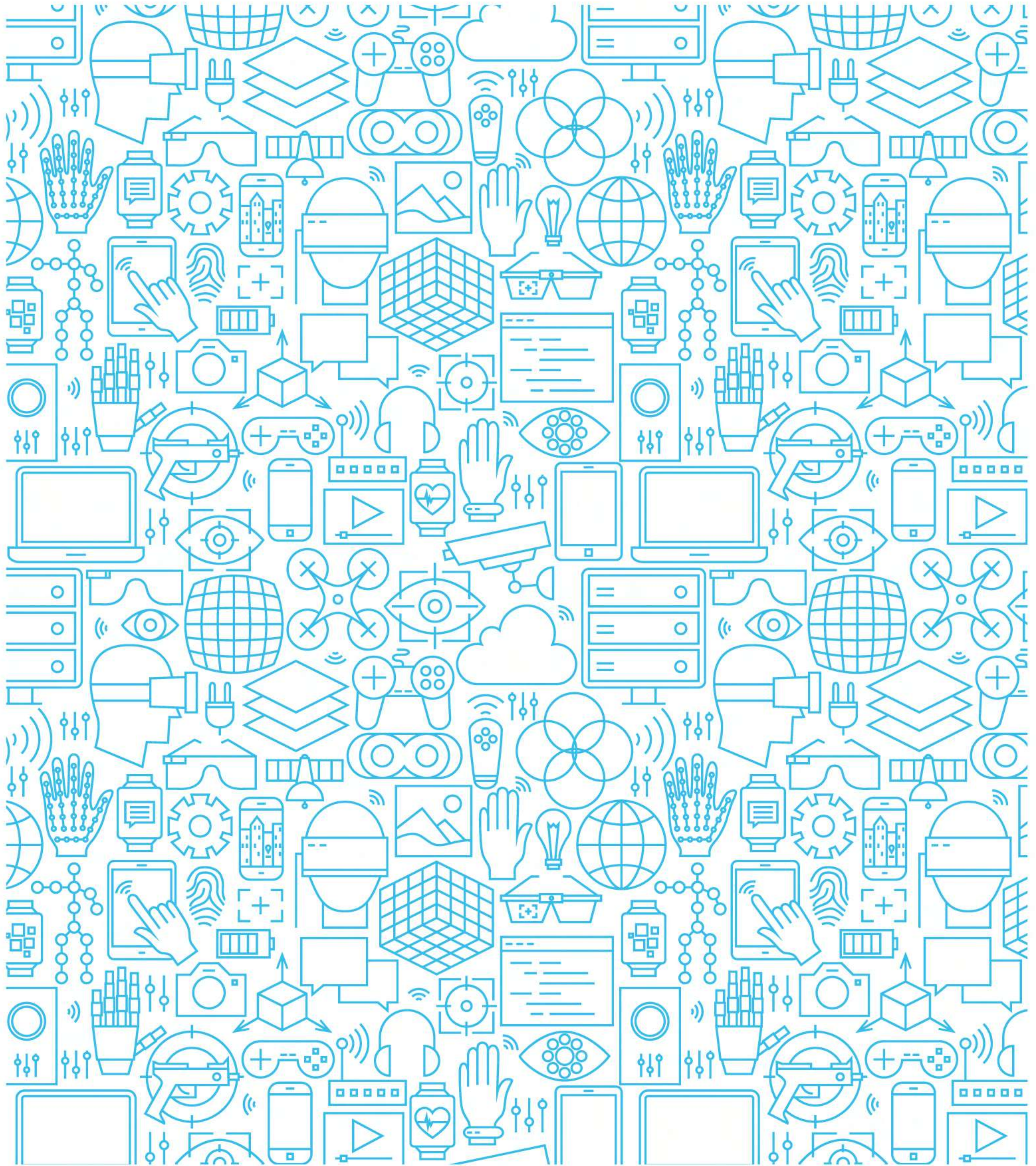
Electrical Characteristics (TA = 25°C Unless Otherwise Specified)

DYNAMIC

Symbol	Parameter	Limit	Min	Typ	Max	Unit	Description
$Q_g$	Total Gate Charge			5.5			The amount of charge to apply voltage (from zero to designated voltage) to gate
$Q_{gs}$	Gate-Source Charge	$V_{DS} = -6V$ , $V_{GS} = -4.5V$ , $I_D = -2.8A$		1.5		nC	The amount of charge required for a MOSFET to begin to turn on (before dropping drain-source voltage)
$Q_{gs}$	Gate-Source Charge			1.5			The amount of gate charge charged in the Miller plateau
$t_{d(on)}$	Turn-On Delay Time			1360		ns	
$t_r$	Turn-On Rise Time	$V_{DS} = -6V$ , $R_L = 6\Omega$		831			
$t_{d(off)}$	Turn-Off Delay Time	$R_{GEN} = 6\Omega$ , $V_{GS} = -4.5V$		5520			
$t_f$	Turn-Off Fall time			1520			

## Brief Product List - MOSFET

No.	Package (Type)	N/P (Type)	VDS (V)	VGS (V)	VGS(th) (Max. V)	RDS(ON) (mΩ@10V)	Ciss (pF)	ID (A)	Dimension (mm)
1	SOP8	N,P	-100~200	±20~±8	-4~4	3~780	376~5783	-16.8~24	4.9x3.9
2	TSSOP8	N	20	±12	1.0~1.2	—	670~865	4.5~7	3.0x4.4
3	TSOP6	N,P	-30~100	±12~±20	-2.5~2.5	12.5~310	310~2280	-7.5~8	2.9x1.6
4	CSP	N	20~24	±12	1.2	—	—	6	—
5	DFN2*2	N,P	-30~30	±12~±20	-2.5~2.5	12~32	310~930	-8~37	2.0x2.0
6	DFN2*3	N	20	±12	1.2~1.5	7.2~16	735~1767	8~11	2.0x3.0
7	DFN3*3	N	12~30	±20~±8	1.0~2.5	12	940~3165	30~56	3.0x3.0
8	DFN3.3*3.3	N,P	-30~75	±12~±20	-2.5~2.5	7.2~12	3120~4307	-50~50	3.3x3.3
9	PRPAK3*3	N,P	-150~100	±12~±25	-4~3	2.4~780	180~5783	-50~100	3.1x3.1
10	NEPPPAK5*6	N,P	-100~150	±12~±25	-2.5~4.5	0.9~330	396~7427	-70~230	5.0x5.9
11	SOT223	N,P	-150~100	±20	-2.5~3	28~1000	428~3848	-5.8~6	6.5x3.5
12	SOT23	N,P	-100~100	±12~±20	-2.5~2.5	27~650	180~2280	-4.9~6	2.9x1.6
13	SOT23S	N,P	-30~60	±12~±20	-2.5~2.5	27~100	310~920	-4.9~6	2.9x1.3
14	SOT323	N	20	±12	1.0	—	310	1.6	2.0x1.3
15	SOT523	N	20	±8	1.0	—	47	0.7	1.6x0.8
16	SOT89	N,P	-40~100	±20	-2.5~2.5	28~310	452~1345	-5.8~6	4.5x2.5
17	TO220	N,P	-100~200	±20	-2.5~5	1.9~170	511~13362	-74~308	10.2x8.7
18	TO220F	N,P	-60~100	±20	-2.5~4.5	3.2~70	1378~5580	-41~88	10.2x9.2
19	TO247	N	100	±20	4.0	2.2	13362	316	15.8x21.1
20	TO251	N,P	-60~100-	±20~±25	-2.5~5	4~310	416~4708	-70~112	6.5x5.8
21	TO252	N,P	-100~200	±20~±30	-2.5~5	2.2~650	416~6516	-70~114	6.5x6.1
22	TO252-4L	N	30~100	±20	2.5	18~100	416~1378	8~30	6.5x6.1
23	TO263	N,P	-100~200	±20	-2.5~4.5	2.2~170	1317~13362	-45~308	10.1x8.9
24	TOLL	N	40~100	±20	2.3~4.0	1.6~2	5471~13362	223~316	9.9x10.4



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