

**Preliminary  
VSCD014**

● **FEATURES**

- \* Lead free product , compliance to RoHs
- \* Lead less chip form , no lead damage
- \* Lead-free solder joint , no wire bond & lead frame
- \* Low power loss , High efficiency
- \* High current capability , low VF
- \* Plastic package has Underwriters Laboratory Flammability Classification 94V-0

● **APPLICATION**

- \* Switching mode power supply applications
- \* Portable equipment battery applications
- \* High frequency rectification
- \* DC / DC Converter
- \* Telecommunication

● **MECHANICAL DATA**

**Case :** Packed with FRP substrate and epoxy underfilled

**Terminals :** Pure Tin plated (Lead-Free), solderable per MIL-STD-750, Method 2026.

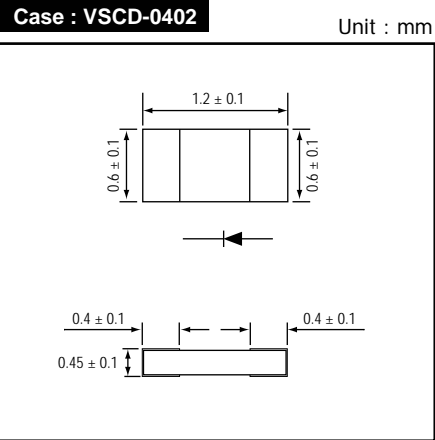
**Polarity :** Laser Cathode band marking

**Weight :** 0.0015 gram

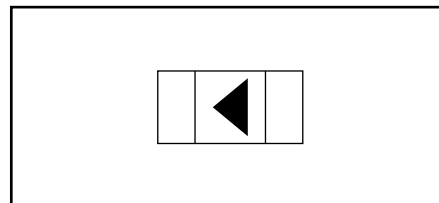
● **PACKING**

- \* 3,000 pieces per 7" (178mm ± 2mm) reel
- \* 5 reels per box
- \* 6 boxes per carton

● **OUTLINE DIMENSIONS**



● **MARKING**



**Absolute Maximum Ratings (Ta = 25 °C)**

ITEM	Symbol	Conditions	Rating	Unit
			VSCD014	
Repetitive peak reverse voltage	VRRM		40	V
Average forward current	IF(AV)		100	mA
Peak forward surge current	IFSM	8.3ms single half sine-wave	0.5	A
Junction temperature	Tj		125	°C
Operating temperature range	Topr		-40 to +125	°C
Storage temperature range	TSTG		-40 to +125	°C

**Electrical characteristics (Ta = 25 °C)**

ITEM	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	VF	IF = 10mA	-	-	0.35	V
Repetitive peak reverse current	IRRM	VR = @ 30V , Ta = 25 °C	-	-	0.5	uA

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

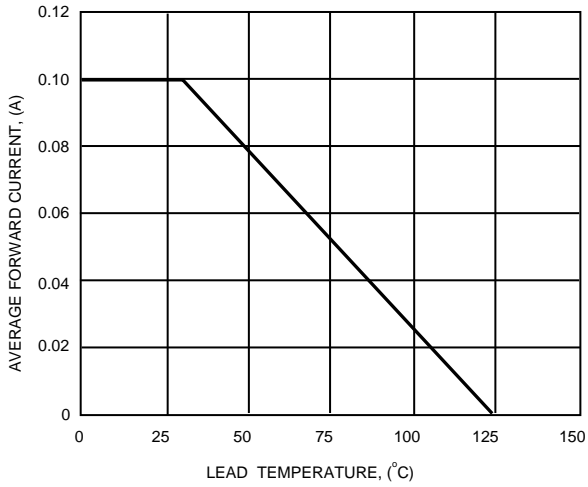


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

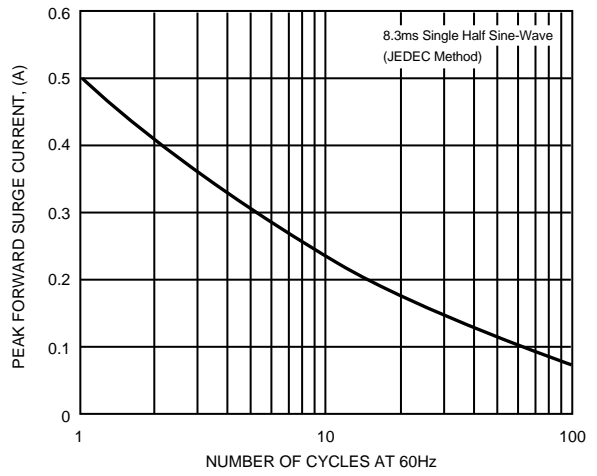


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

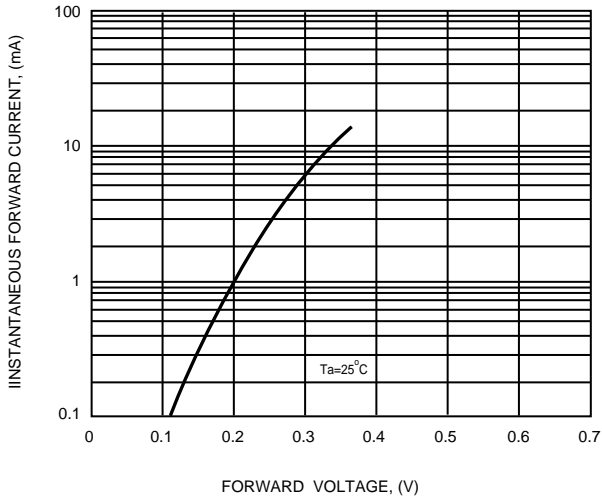


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

