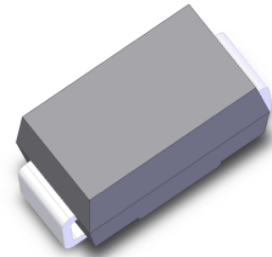


Features

- Ideal for automated placement
- Low forward voltage
- Low leakage current
- High forward surge capability
- Moisture sensitivity: level 1, per J-STD-020



DO-214AC(SMA)

Typical Applications

- For use of general purpose rectification in lighting, cellular phone, portable device, power supplies and other consumer applications.

Mechanical Data

- Case:DO-214AC, molded epoxy body, Epoxy meets UL 94V-0 flammability rating
- Terminal:Matte tin plated leads, solderable per J-STD-002 and JESD22B-106
- Polarity:Indicated by cathode band

Maximum Ratings and Electrical Characteristics

(TA = 25 °C unless otherwise noted)

Parameter	Symbol	GN2AA	GN2BA	GN2DA	GN2GA	GN2JA	GN2KA	GN2MA	Unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	1000	100	200	400	600	800	1000	V
Maximum average forward rectified current	IF(AV)	2.0							A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	60.0							A
Rating for fusing (t≤8.3ms,single half sine-wave)	I ² t	15.0							A ² s
Maximum forward voltage at I _F =2.0Amps	V _F	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage	I _R	@Ta=25°C							uA
		@Ta=125°C							
Typical junction capacitance(Note1)	C _J	9.5							pF
Typical thermal resistance(Note2)	R _{θJA}	60.0							°C/W
Operating junction and storage temperature range	T _J , TSTG	- 55 to + 150							°C

Notes:1.Measured at 1.0MHz and applied reverse voltage of 4.0 D.C.

2.Thermal resistance from junction to ambient, 8.0×8.0mm copper pads to each terminal

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

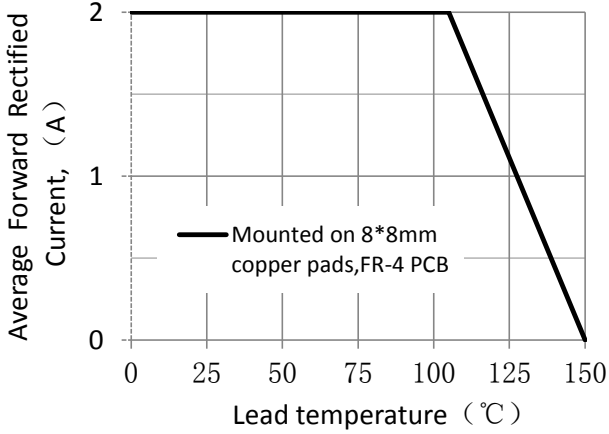


Figure 1. Forward Current Derating Curve

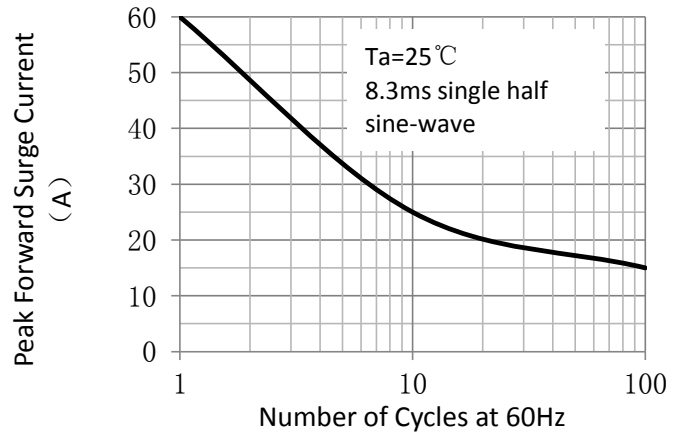


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

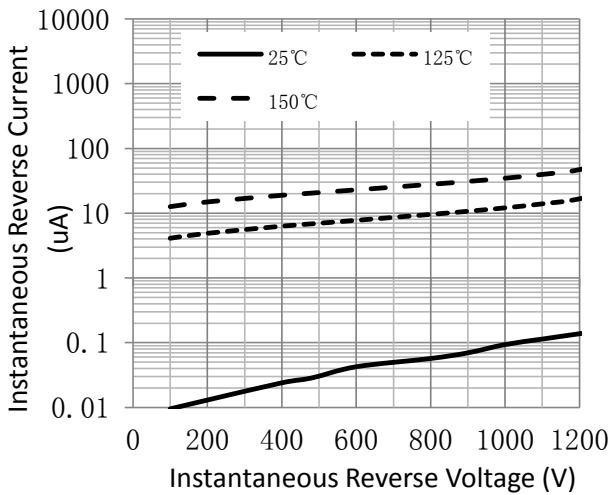


Figure 3. Typical Reverse Characteristics

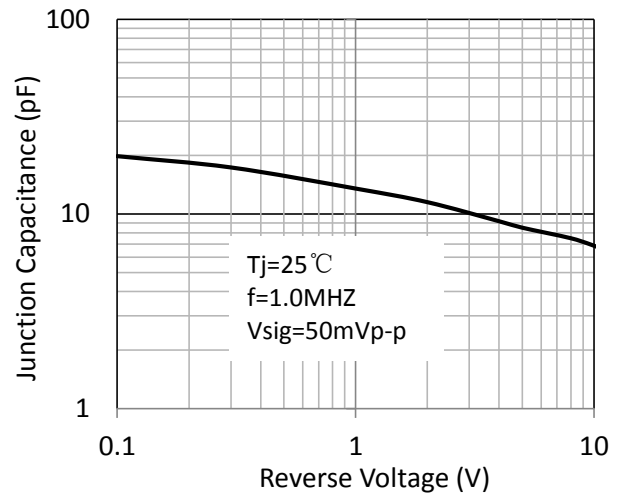


Figure 4. Typical Junction Capacitance

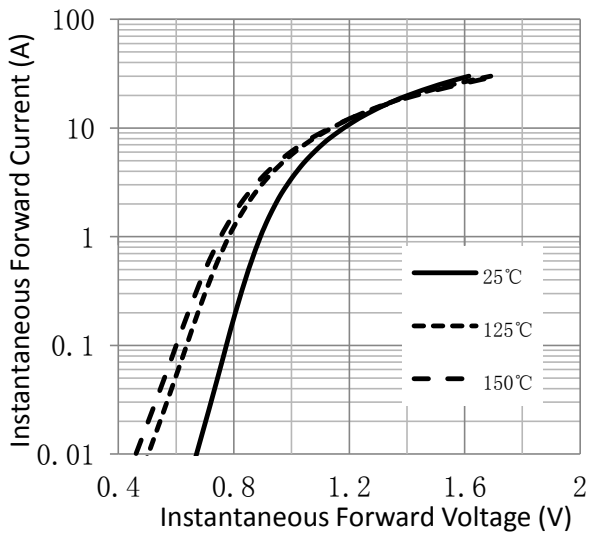
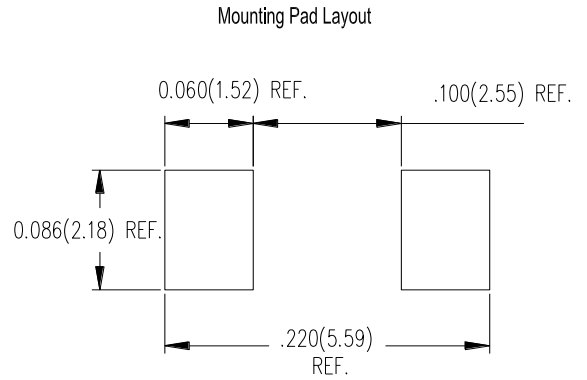
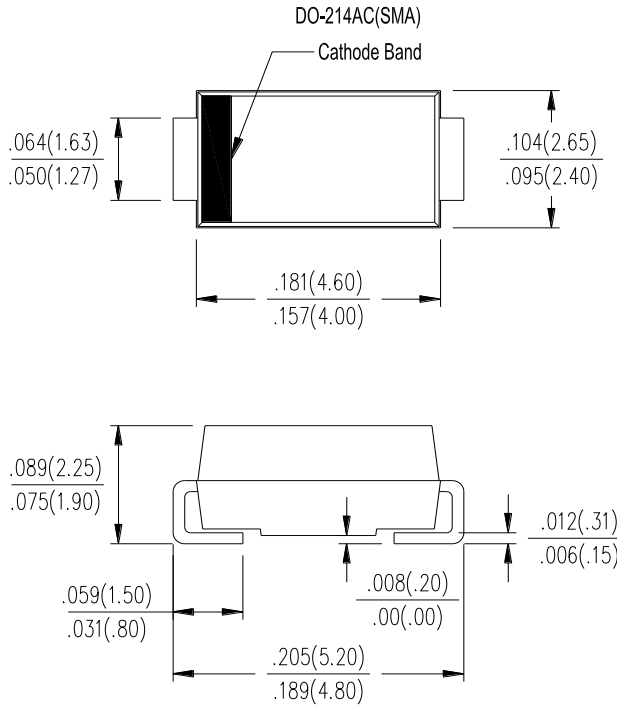


Figure 5. Typical Instantaneous Forward Characteristics

Package Outline Dimensions

in inches (millimeters)

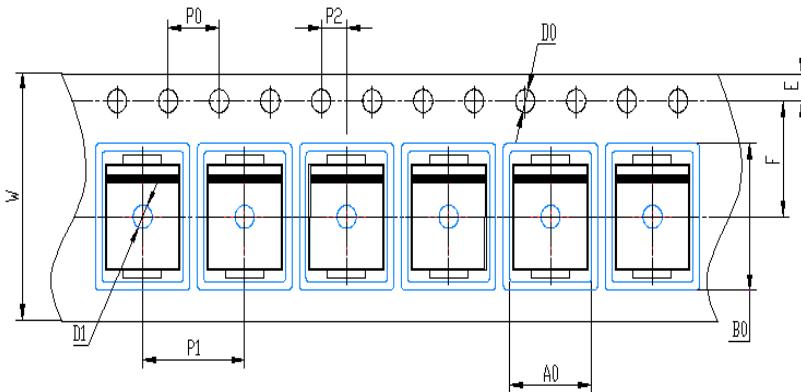


Packing Information

Packing quantities:

7500 pcs/Reel, 18 Reels/Box; 12mm Tape, 13" Reel

Tape & Reel Specification



Symbols	SMA(mm)
W	12 ± 0.2
E	1.75 ± 0.1
F	5.5 ± 0.05
D0	1.5 ± 0.1
D1	1.50 +0.1/-0
P0	4.0 ± 0.1
P1	4.0 ± 0.1
P2	2.0 ± 0.05
A0	2.65 ± 0.1
B0	5.25 ± 0.1



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