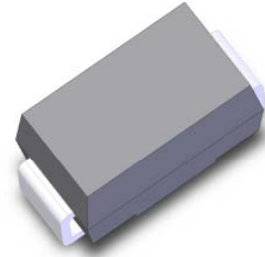


Features

- Ideal for automated placement
- Glass passivated fast recovery rectifiers
- High reverse voltage
- 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	GRZ520	Unit
Maximum repetitive peak reverse voltage	VRRM	2000	V
Maximum RMS voltage	VRMS	1400	V
Maximum DC blocking voltage	VDC	2000	V
Maximum average forward rectified current TL (See Fig.1)	IF(AV)	0.5	A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	25.0	A
Maximum forward voltage at IF=0.5Amps	VF	1.7	Volts
Maximum DC reverse current at rated DC blocking	IR	@Ta=25°C 5.0	uA
		@Ta=125°C 250.0	
Maximum reverse recovery time	t _{rr}	IF=0.5A, IR=1.0A IR=0.25A 300	nS
Typical junction capacitance(Note1)	CJ	5.0	pF
Typical thermal resistance(Note2)	RθJA	TBD	°C/W
Operating junction and storage temperature range	TJ, 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)

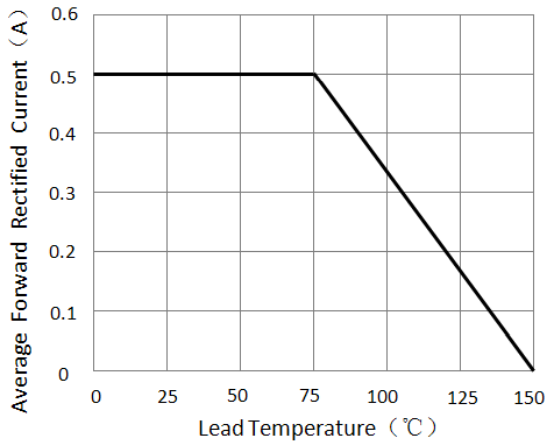


Figure 1. Forward Current Derating Curve

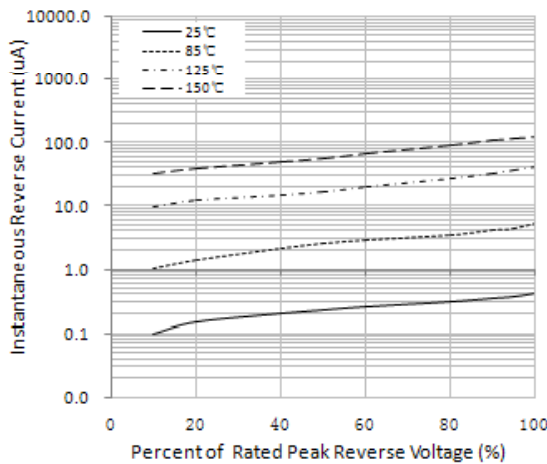


Figure 3. Typical Reverse Characteristics

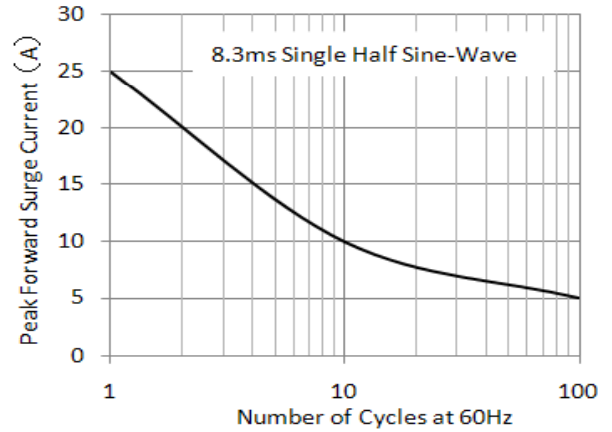


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

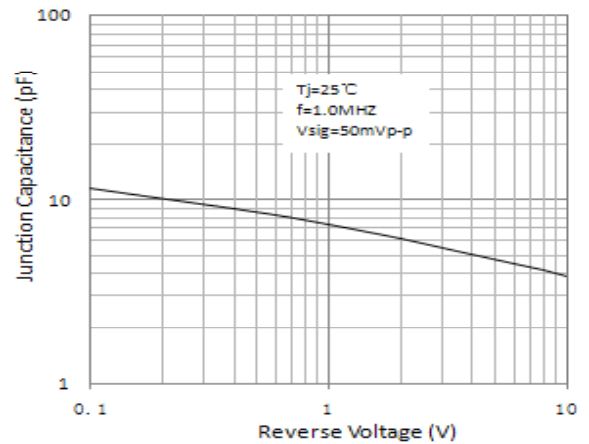


Figure 4. Typical Junction Capacitance

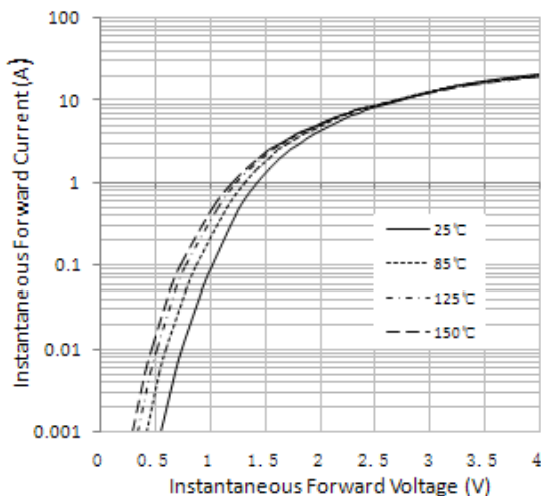
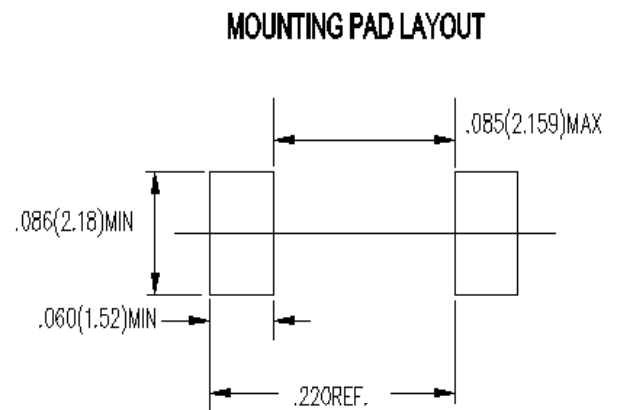
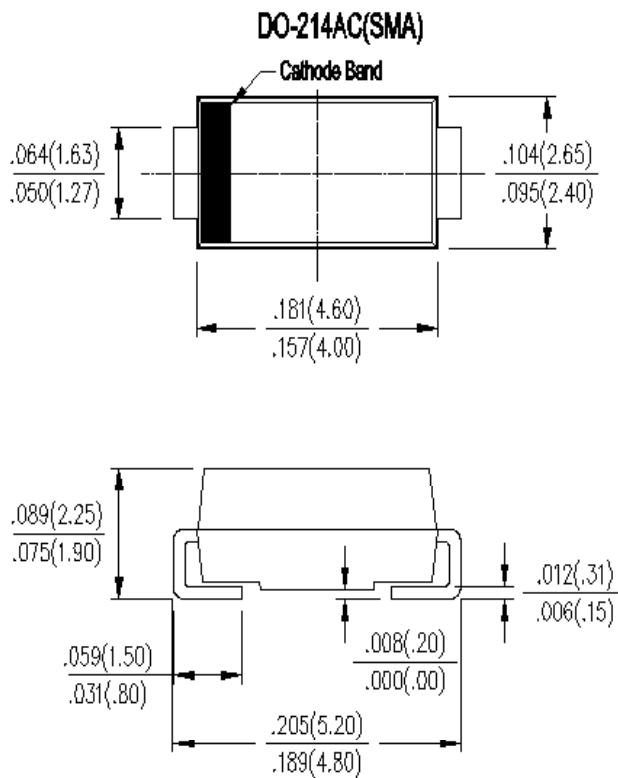


Figure 5. Typical Instantaneous Forward Characteristics

Package Outline Dimensions

in inches (millimeters)





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