

Features

- · Glass passivated Standard rectifiers
- · Ideal for automated placement
- · Low forward voltage drop
- · High forward surge capability
- Moisture sensitivity: level 1, per J-STD-020

Typical Applications

DO-214AC(SMA)

• 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

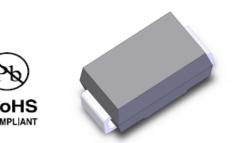
Maximum Ratings and Electrical Characteristics

(TA = 25 °C unless otherwise noted)

Parameter		Symbol	M1	M2	M3	М4	М5	M6	М7	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	50	100	200	400	600	800	1000	V
Maximum average forward rectified current TL (See Fig.1)		IF(AV)	1.0							A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load		IFSM	30.0							А
Maximum forward voltage at I _F =1.0Amps		V _F	1.0							Volts
Maximum DC reverse current at rated DC blocking voltage	@Ta=25℃	- I _R	5.0							
	@Ta=125℃		50.0							– uA
Typical junction capacitance(Note1)		CJ	10.0							pF
Typical thermal resistance(Note2)		R _{θJA}	62.0							°C/W
Typical thermal resistance(Note2)		$R_{ extsf{ heta}JL}$	3.5							°C/W
Operating junction and storage temperature range		TJ, TSTG	- 55 to + 150							°C

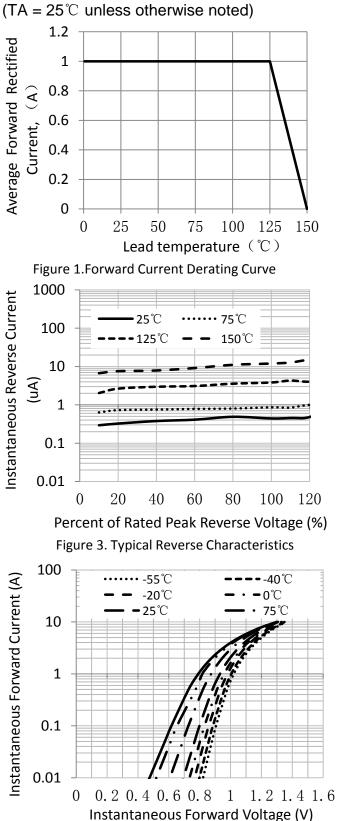
Notes:1.Measured at 1.0MHz and applied reverse voltage of 4.0 D.C.

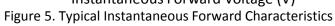
2.Thermal resistance from junction to lead, 0.197x0.197["] (5.0x5.0mm) copper pads to each terminal

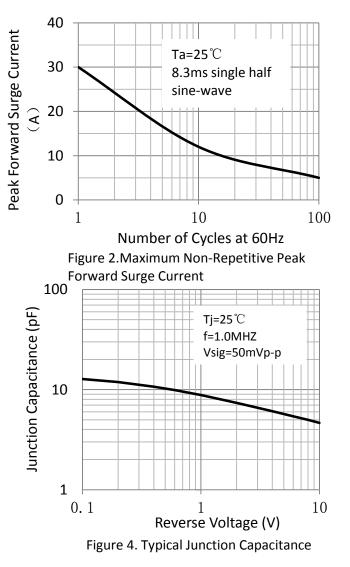




Ratings and Characteristics Curves





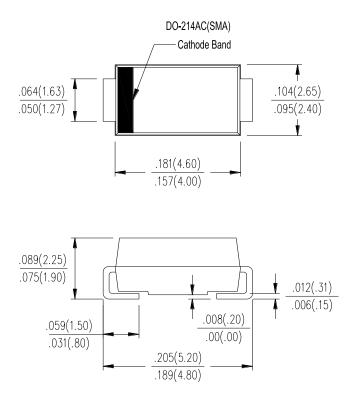




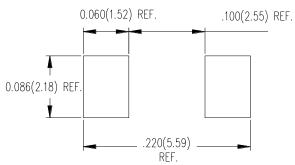
M1 thru M7 Surface Mount Glass Passivated Standard Rectifier Reverse Voltage 50~1000V Forward Current 1A

Package Outline Dimensions

in inches (millimeters)



Mounting Pad Layout

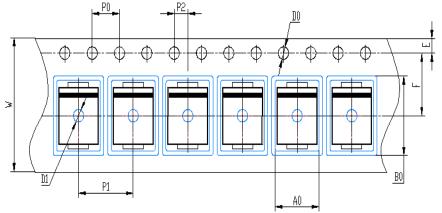


Packing Information

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 \pm 0.05				
DO	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				
AO	2.65 ± 0.1				
В0	5.25 \pm 0.1				



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