

### Features

- For surface mounted applications
- Low profile package
- Built-in strain relief, ideal for automated placement
- glass passivated chip junction
- Moisture sensitivity: level 1, per J-STD-020
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- AEC-Q101 Qualified



RoHS  
COMPLIANT



DO-214AA (SMB)

### Typical Applications

- Case: JEDEC DO-214AA (SMB) molded plastic body over glass passivated chip
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

MAXIMUM RATINGS (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	AS2M	UNIT
Maximum repetitive peak reverse voltage	VRRM	1000	V
Maximum RMS voltage	VRMS	700	V
Maximum DC blocking voltage	VDC	1000	V
Maximum average forward rectified current at TL(See Fig.1)	IF(AV)	2.0	A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	50	A
Operating junction and storage temperature range	TJ, TSTG	- 55 to + 175	°C

ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)				
PARAMETER	TEST CONDITIONS	SYMBOL	AS2M	UNIT
Maximum instantaneous forward voltage	2A	$V_F$	1.15	Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	$I_R$	1.0	μA
	TA=125°C		125	
Typical reverse recovery time	IF=0.5A, IR=1.0A, Irr=0.25A	$t_{rr}$	1.8	uS
Typical thermal resistance <sup>1)</sup>	junction to ambient	$R_{\theta JA}$	53	°C/W
	junction to lead	$R_{\theta JL}$	16	
Typical junction capacitance	4.0 V, 1 MHz	$C_J$	30	pF

Note:1),The thermal resistance from junction to ambient,case or lead,mounted on P.C.B with 8.0×8.0mm copper pads

## Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

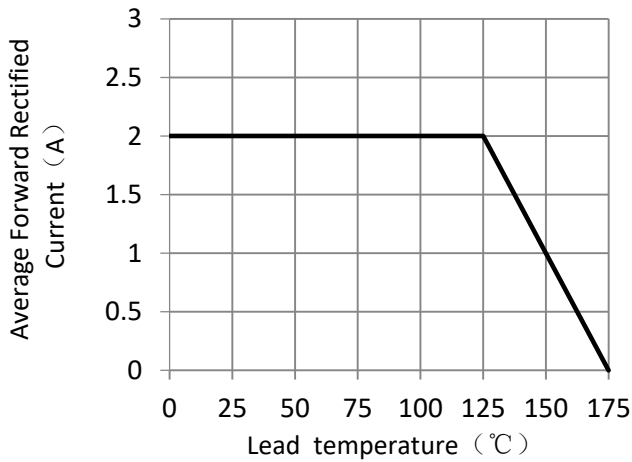


Figure 1. Forward Current Derating Curve

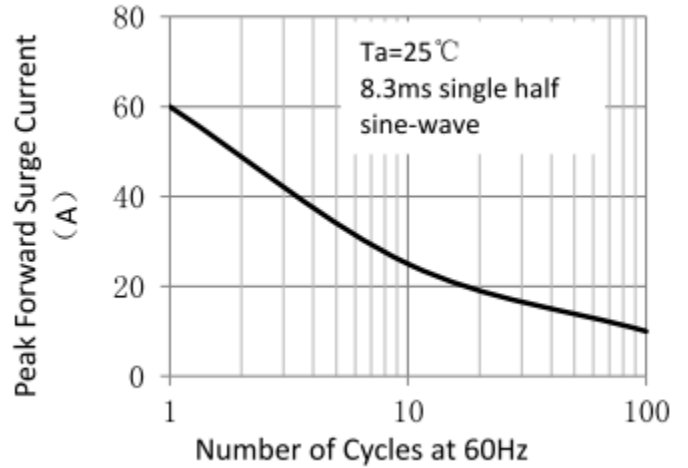


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

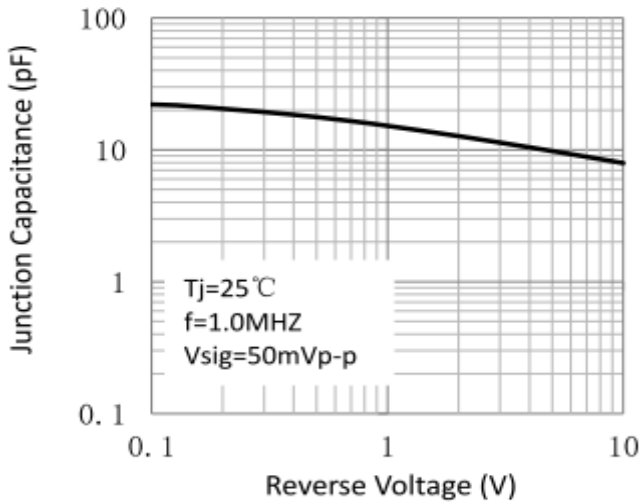


Figure 3. Typical Junction Capacitance

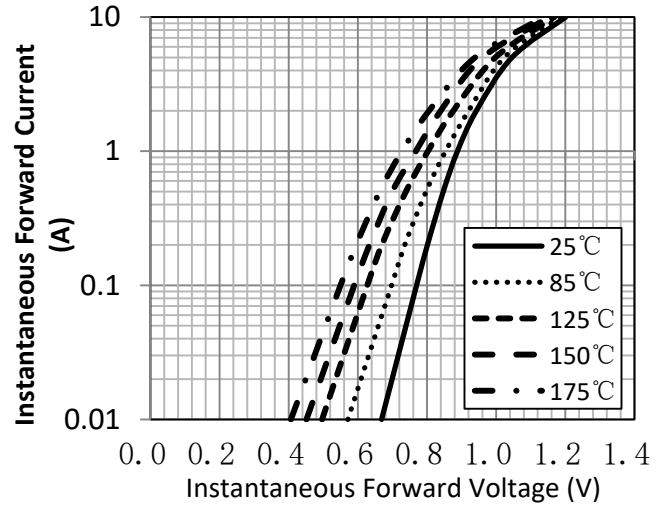


Figure 4. Typical Instantaneous Forward Characteristics

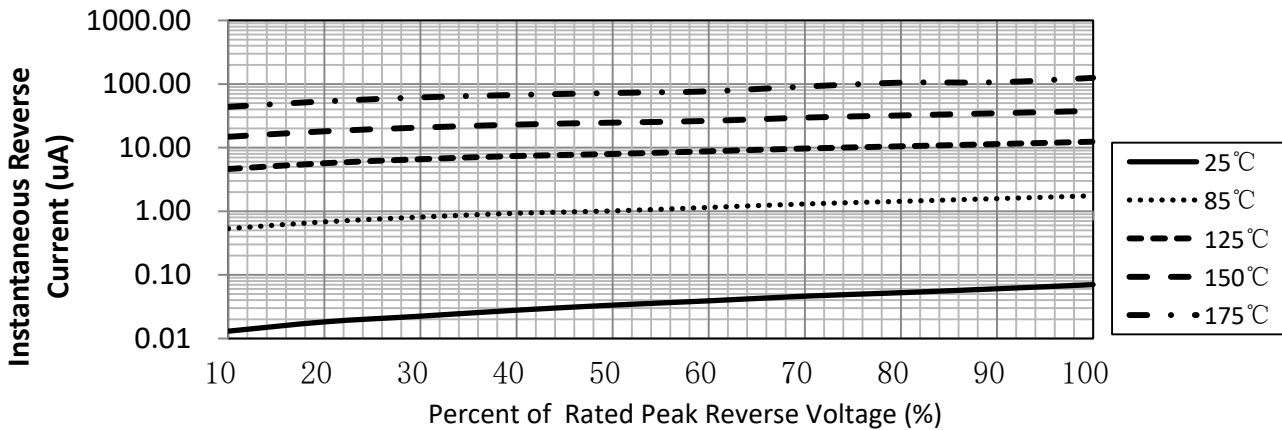
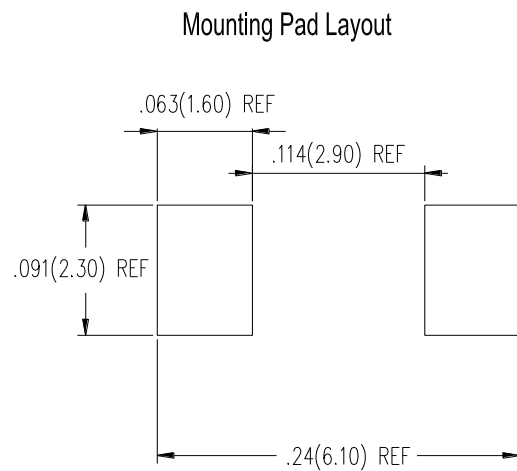
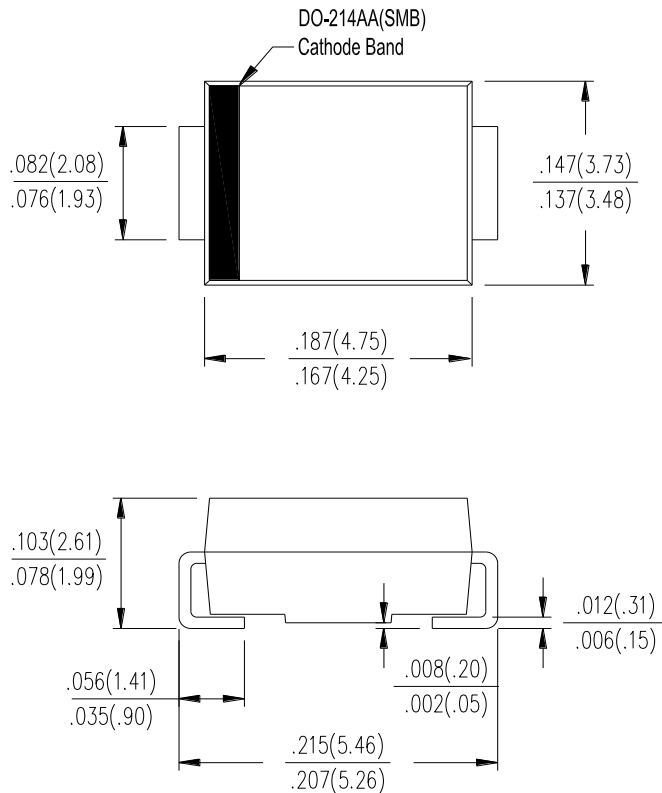


Figure 5. Typical Reverse Characteristics

## Package Outline Dimensions

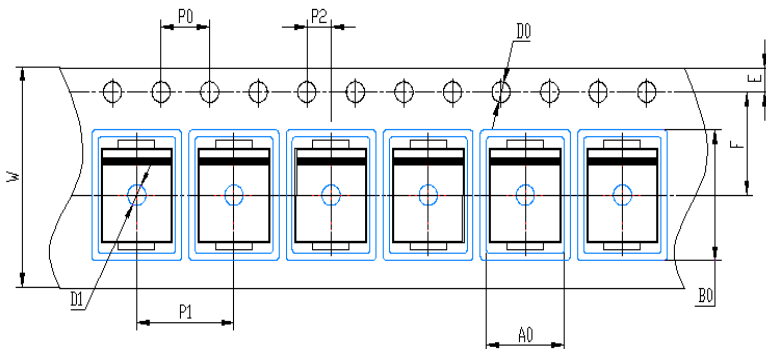
in inches (millimeters)



## Packing Information

3000 pcs/Reel, 18 Reels/Box; 12mm Tape, 13" Reel

### Tape & Reel Specification



Symbols	SMB (mm)
W	$12 \pm 0.2$
E	$1.75 \pm 0.1$
F	$5.5 \pm 0.05$
D0	$1.5 \pm 0.1$
D1	$1.50 +0.1/-0$
P0	$4.0 \pm 0.1$
P1	$8.0 \pm 0.1$
P2	$2.0 \pm 0.05$
A0	$3.95 \pm 0.1$
B0	$5.74 \pm 0.1$



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