



Features

- ◆ Low profile package
- ◆ Ideal for automated placement
- ◆ Glass passivated chip junction
- ◆ High forward surge capability
- ◆ Super fast reverse recovery time

Mechanical Data

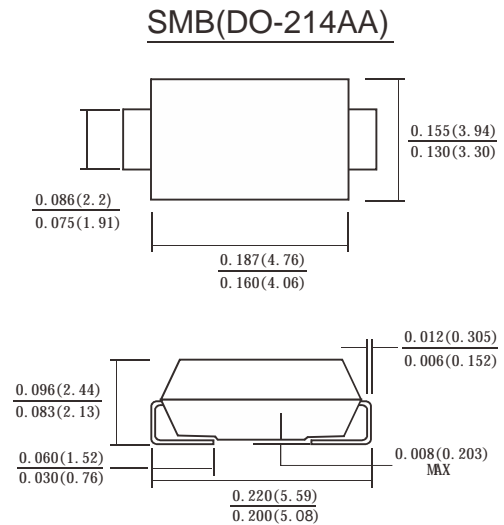
Case: SMB Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

High temperature soldering guaranteed: 260°C/10 seconds

Polarity: Cathode line denotes the cathode end

Mounting Position: Any



Dimensions in inches and (millimeters)

Maximum Ratings & Electrical Characteristics

Ratings at TA = 25°C unless otherwise specified

Characteristic	Symbol	MURS160	Units
Peak repetitive reverse voltage	VRRM	600	V
RMS reverse voltage	VRMS	420	V
DC blocking voltage	VDC	600	V
Maximum average forward output current	IF(AV)	1	A
Peak forward surge current, 8.3ms single half-sine-wave, @TJ = 25°C	IFSM	80	A
Rating for fusing (t<8.3ms)	I2t	26.7	A2sec
Maximum instantaneous forward voltage @ 1A	VF	1.25	V
Maximum reverse recovery time (Note 1)	Trr	35	nS
Maximum Reverse current Rated VR	IR	@TA =25°C	10
		@TA =125°C	200

Thermal Characteristics

Characteristic	Symbol	MURS160	Units
Typical thermal resistance (Note 2)	R ΘJA	75	°C /W
	R ΘJL	25	
Operating junction temperature range	TJ	- 55 ---- + 150	°C
Storage temperature range	TSTG	- 55 ---- + 150	°C

Note:

(1) IF=0.5A, IR=1A, IRR=0.25A

(2) Units mounted on P.C.B. with 8.0 x 8.0 mm land areas.



Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig.1-Forward Current Derating Curve

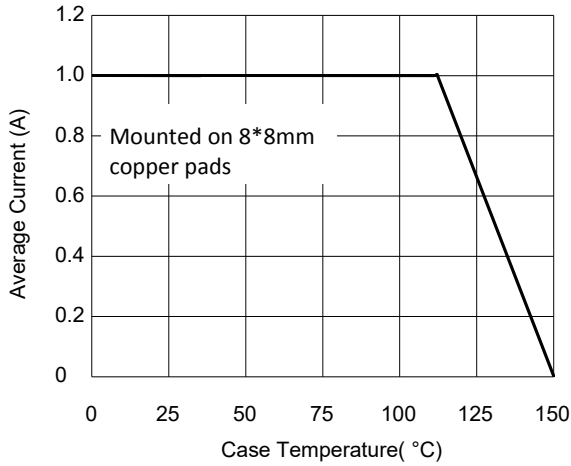


Fig.2- Surge Current Derating Curve

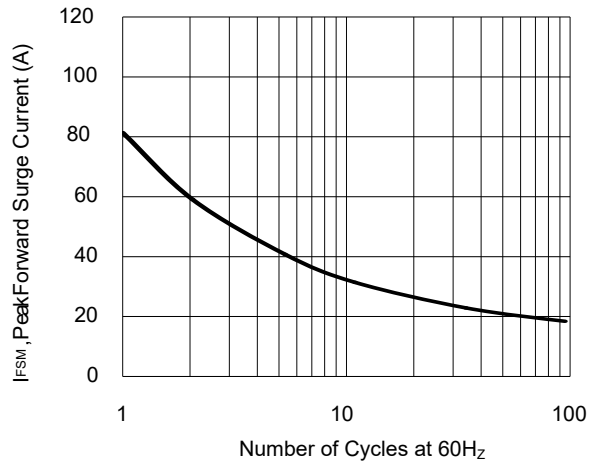


Fig.3- Typical Forward Voltage Characteristic

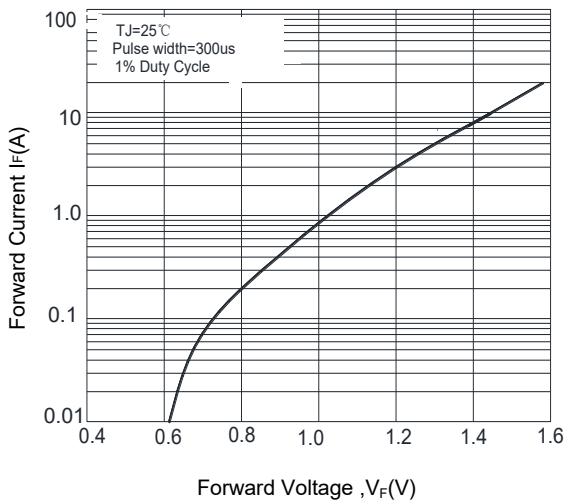
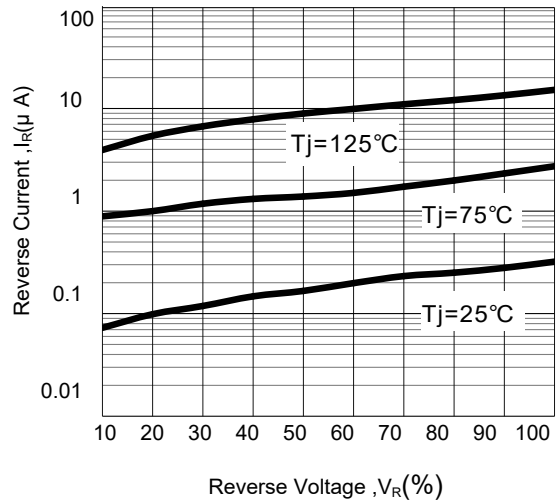


Fig.4- Typical Reverse Characteristic



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