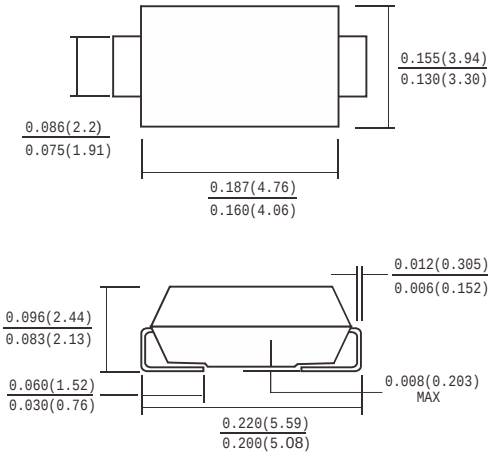
MURS160

Surface Mount Super Fast Recovery Rectifier

Features

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

SMB(DO-214AA)



Dimensions in inches and (millimeters)

Mechanical Data

Case: SMB Molded plastic body

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

High temperature soldering guaranteed: 260℃/10 seconds

Polarity: Cathode line denotes the cathode end

Mounting Position: Any

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 fusig (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	@TA =25°C	IR	10	μ A
	@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°C unless otherwise noted)

Fig.1-Forward Current Derating Curve

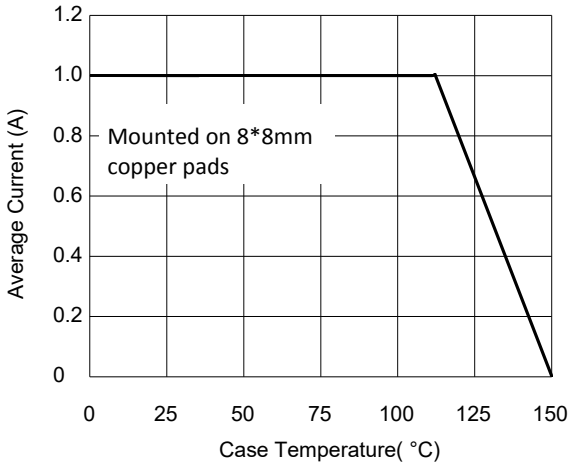


Fig.2- Surge Current Derating Curve

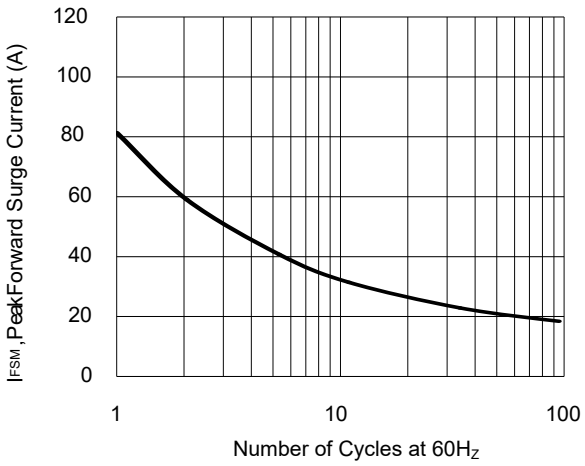


Fig.3- Typical Forward Voltage Characteristic

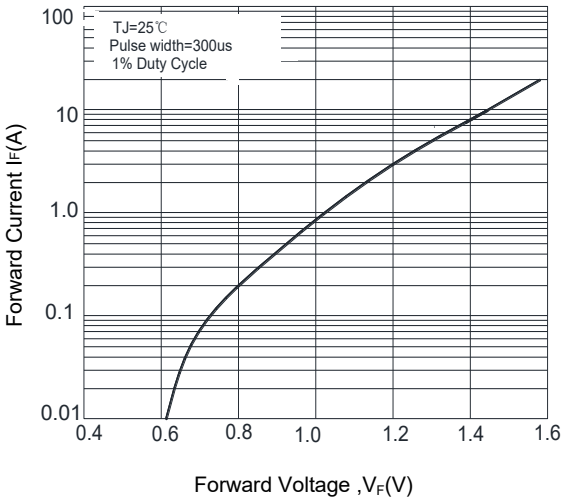


Fig.4- Typical Reverse Characteristic