

Super-Fast Rectifiers

MURS340B--MURS360B

Features

- For surface mounted applications
- Ideal for automated placement
- Low forward voltage drop
- High surge current capability
- RoHS Compliant



Mechanical Data

- Case: SMB molded plastic
- Molding compound, UL flammability classification rating 94V-0
- Terminals: Solder plated, solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathode end

Maximum Ratings (@T_A = 25°C unless otherwise specified)

Characteristic	Symbol	MURS340B	MURS360B	Units
Peak repetitive reverse voltage	V _{RRM}	400	600	V
RMS reverse voltage	V _{RMS}	280	420	V
DC blocking voltage	V _{DC}	400	600	V
Maximum average forward output current	I _{F(AV)}	3.0		A
Peak forward surge current, 8.3ms single half-sine-wave	I _{FSM}	125		A

Thermal Characteristics

Parameter	Symbol	MURS340B	MURS360B	Units
Typical thermal resistance (Note 1)	R _{θJA}	70		°C/W
	R _{θJC}	25		
	R _{θJL}	30		
Operating junction temperature range	T _J	- 55 ---- + 150		°C
Storage temperature range	T _{STG}	- 55 ---- + 150		°C

Note:

1. Device mounted on PCB with 10 mm x 20 mm x 0.1mm copper pad areas

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Electrical Characteristics (@T_A = 25°C unless otherwise specified)

Parameter	Symbol	Test conditions		Typ.	Max.	Units
Maximum instantaneous forward voltage	V _F	I _F =3.0A	@T _A =25°C	--	1.25	V
Maximum Reverse current	I _R	Rated V _R ,	@T _A =25°C	--	10	μ A
			@T _A =150°C	--	250	
Maximum Reverse Recovery Time	trr	I _F =0.5A, I _{RM} =1A, I _{R(REC)} =0.25A		--	50	ns

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

Fig.1-Forward Current Derating Curve

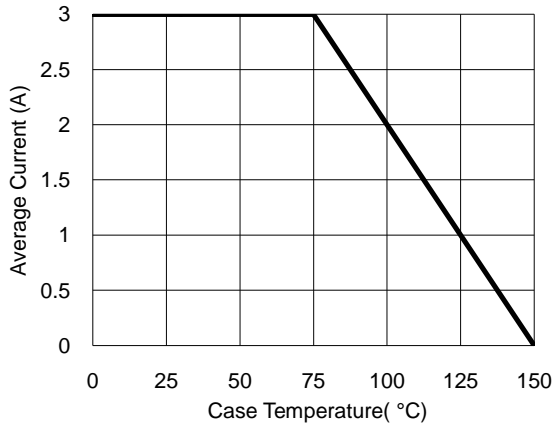


Fig.2- Surge Current Derating Curve

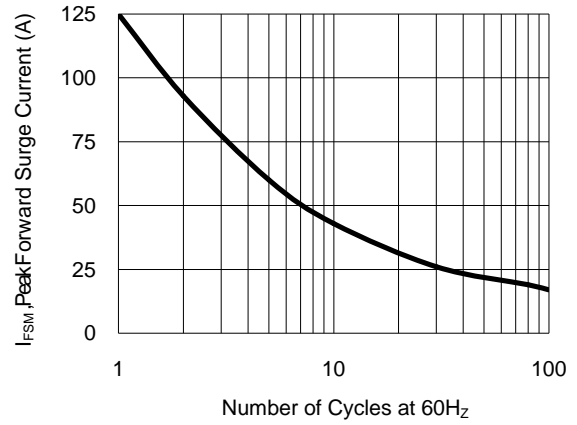


Fig.3- Typical Forward Voltage Characteristic

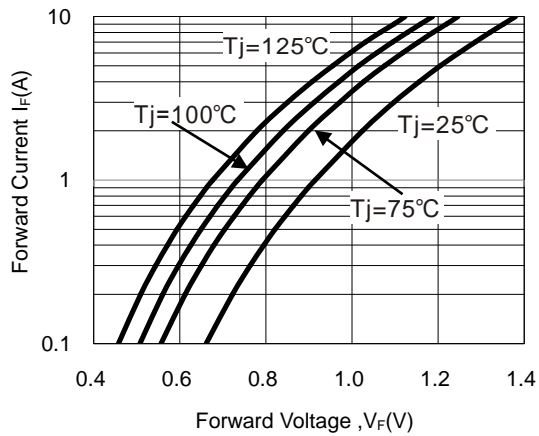
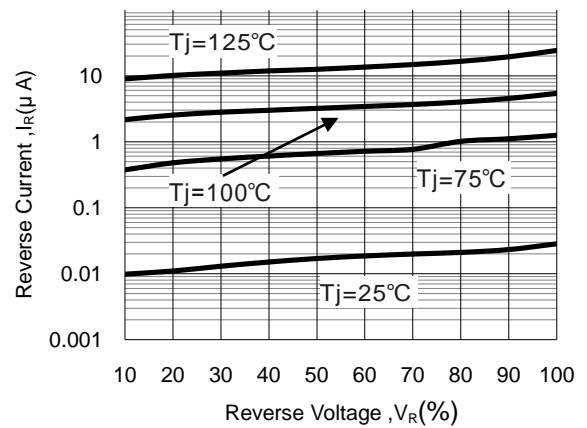


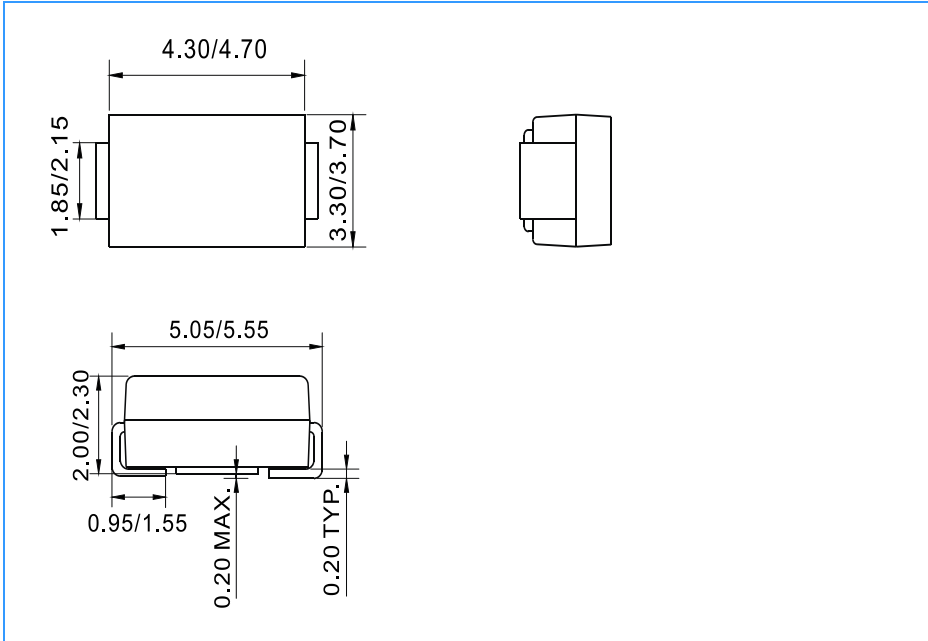
Fig.4- Typical Reverse Characteristic



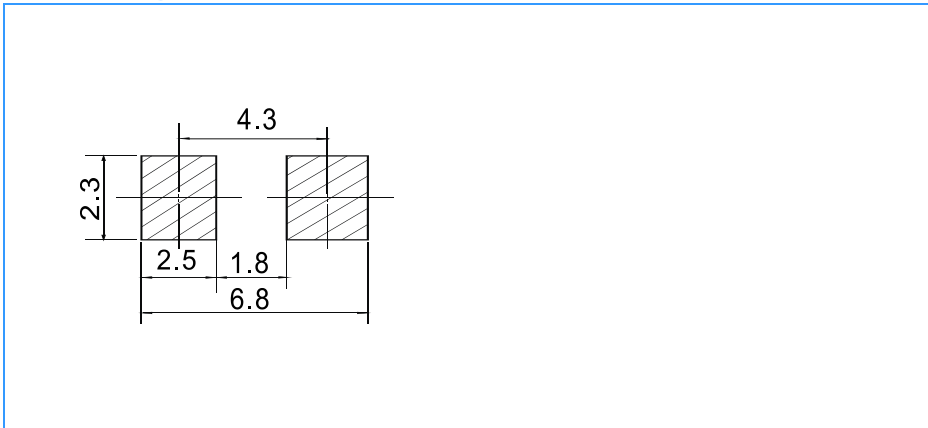
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Package Outline Dimensions(unit:mm)



Mounting Pad Layout(unit:mm)



Ordering Information

Part No.	Marking	Package	Shipping
MURS340B	MURS340B	SMB	3000 / Tape&Reel
MURS360B	MURS360B	SMB	3000 / Tape&Reel