

Super-Fast Rectifiers

MURS240

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	MURS240	Units
Peak repetitive reverse voltage	V _{RRM}	400	V
RMS reverse voltage	V _{RMS}	280	V
DC blocking voltage	V _{DC}	400	V
Maximum average forward output current	I _{F(AV)}	2.0	A
Peak forward surge current, 8.3ms single half-sine-wave	I _{FSM}	35	A

Thermal Characteristics

Parameter	Symbol	MURS240	Units
Typical thermal resistance (Note 1)	R _{θJA}	60	°C /W
	R _{θJC}	23	
	R _{θJL}	25	
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

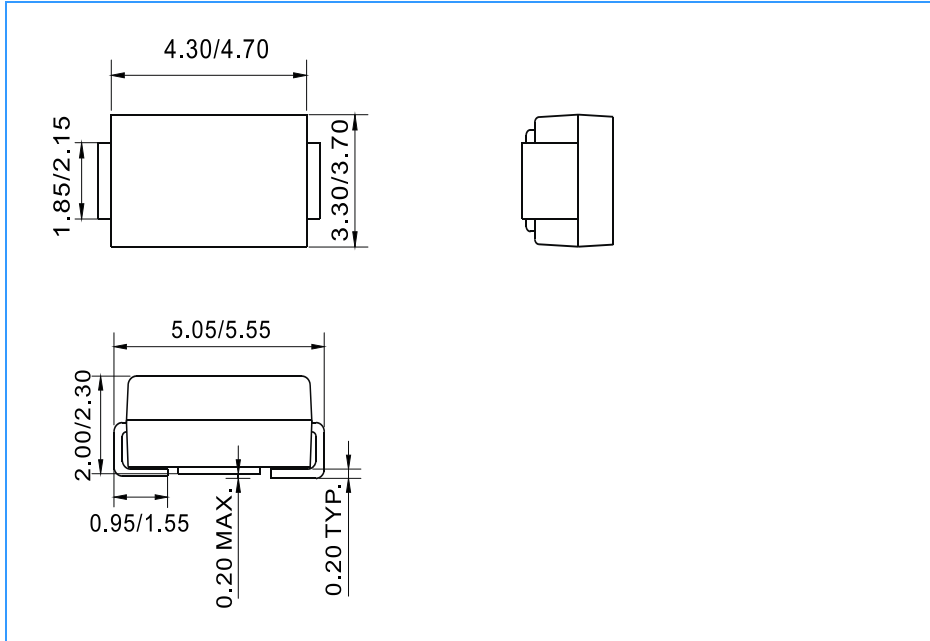
Super-Fast Rectifiers**MURS240****Electrical Characteristics** (@ $T_A = 25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions		Typ.	Max.	Units
Maximum instantaneous forward voltage	V_F	$I_F=2.0\text{A}$	@ $T_A=25^{\circ}\text{C}$	--	1.3	V
Maximum Reverse current	I_R	Rated V_R ,	@ $T_A=25^{\circ}\text{C}$	--	5	μA
			@ $T_A=125^{\circ}\text{C}$	--	150	
Maximum Reverse Recovery Time	t_{rr}	$I_F=0.5\text{A}, I_{RM}=1\text{A}, I_{R(REC)}=0.25\text{A}$		--	50	ns

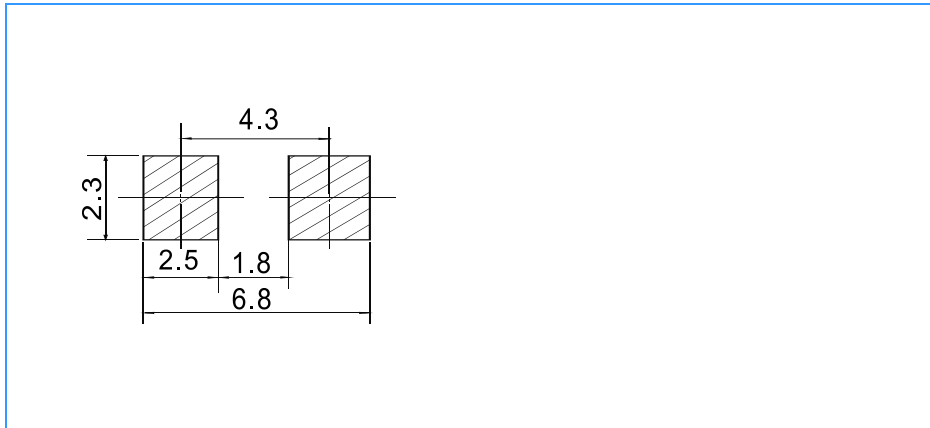
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MURS240

Package Outline Dimensions(unit:mm)



Mounting Pad Layout(unit:mm)



Ordering Information

Part No.	Marking	Package	Shipping
MURS240	MURS240	SMB	3000 / Tape&Reel