

Green Products

MURS120 ULTRAFAST RECTIFIERS

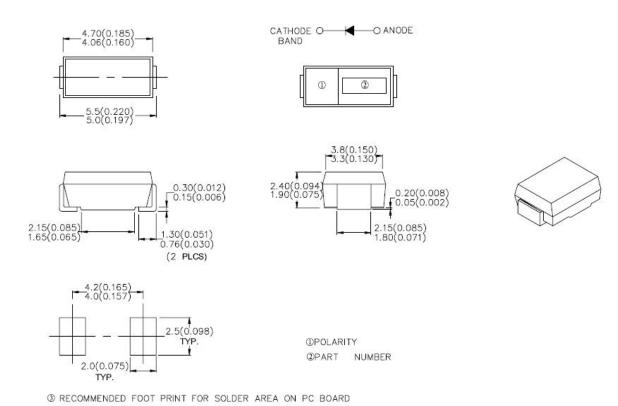
Applications:

- Switching Power Supply
- Power Switching Circuits
- General Purpose

Features:

- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- · Additional testing can be offered upon request

Mechanical Dimensions (In mm / Inches) and Marking:

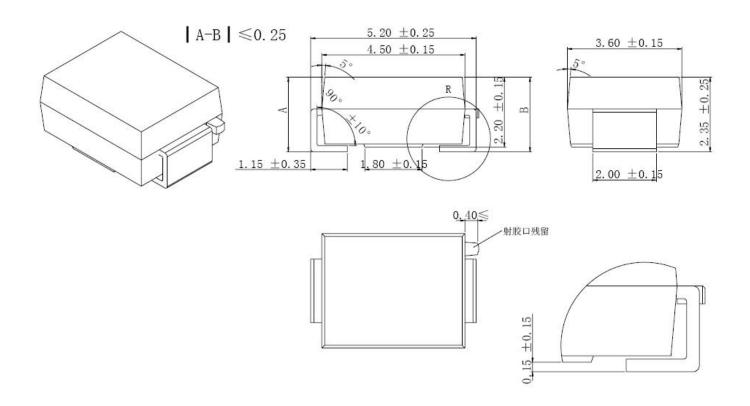


OPTION 1

- China Germany Korea Singapore United States
 - http://www.smc-diodes.com
 sales@ smc-diodes.com



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OPTION 2(JK)

SMB

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Marking Diagram:



Cautions: Molding resin Epoxy resin UL:94V-0 Where XXXXX is YYWWL

U = Device Type

1 = Forward Current (1A) 20 = Reverse Voltage (200V)

B = Package type

YY = Year WW = Week L = Lot Number

Ordering Information:

Device	Package	Shipping
MURS120	SMB (Pb-Free)	3000pcs/reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	MURS120	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	200	V
Average Rectified Output Current @T _L = 75°C	lo	1.0	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	40	А
Forward Voltage (Note 1) @I _F = 1.0A, T _J =25°C	V _{FM1}	0.9	V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _R	2.0 50	μA
Typical Thermal Resistance Junction to Ambient	R _{0JA}	80	K/W
Maximum Reverse Recovery Time (Note 2)	Trr1	25	ns
Operating and Storage Temperature Range	T_J , T_{STG}	-55 to +150	°C
Approximate Weight	wt	0.09	g
Case Style	SMB		

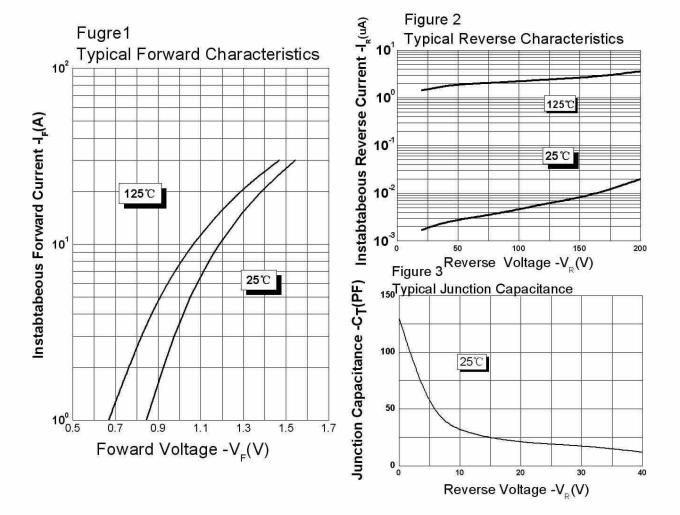
Note: 1. Mounted on P.C. Board with 14mm² (0.13mm thick) copper pad.

2. Measured with $I_F=0.5A$; $I_R=1.0A$; $I_{RR}=0.25A$

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