

MURS120

Technical Data Data Sheet N0161 Rev. - **Green Products**

MURS120 ULTRAFAST RECTIFIERS

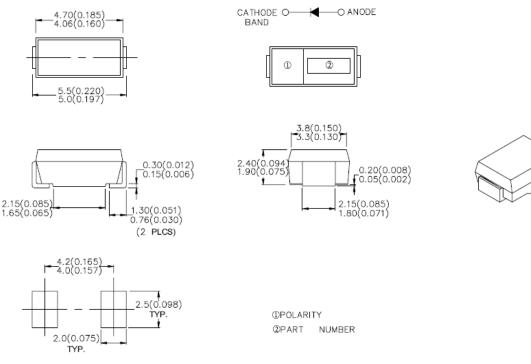
Applications:

- 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:



3 RECOMMENDED FOOT PRINT FOR SOLDER AREA ON PC BOARD

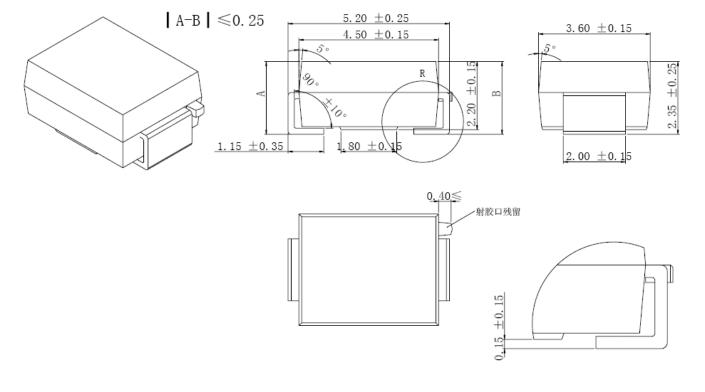
OPTION 1

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:



Where XXXXX is YYWWL

U	= Device Type
1	= Forward Current (1A)
20	= Reverse Voltage (200V)
В	= Package type
YY	= Year
WW	= Week
L	= Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping	
MUDS120	SMB	3000pcs/reel	
MURS120	(Pb-Free)		

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 $@T_L = 75^{\circ}C$	lo	1.0	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	40	A
Forward Voltage (Note 1) $@I_F = 1.0A, T_J=25^{\circ}C$	V _{FM1}	0.9	V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	I _R	2.0 50	μA
Typical Thermal Resistance Junction to Ambient	$R_{ extsf{ heta}JA}$	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.

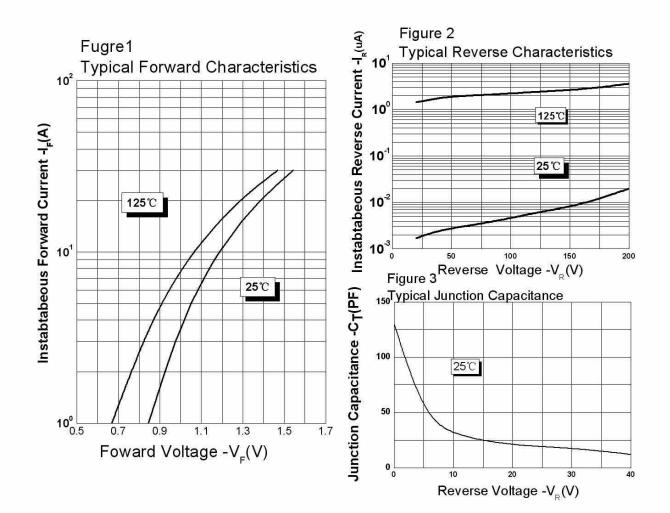
2. Measured with I_F =0.5A; I_R =1.0A; I_{RR} =0.25A

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