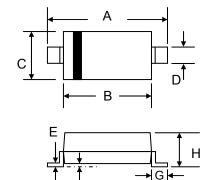


SURFACE MOUNT FAST SWITCHING DIODE



Features

- Silicon Epitaxial Planar Die Construction
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- Plastic Material UL Recognition Flammability Classification 94V-0



SOD-323				
Dim	Min	Max		
Α	2.30	2.75		
В	1.60	1.80		
С	1.15	1.35		
D	0.25	0.40		
E	0.09	0.18		
G	0.20	0.40		
Н	0.80	1.15		
J	-	0.12		
All Dimensions in mm				

Mechanical Data

• Case: SOD-323, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208 Polarity: Cathode Band

Weight: 0.004 grams (approx.)

Marking: 5A

Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4

Maximum Ratings @TA=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	70	٧
Forward Continuous Current	lF	200	mA
Non-Repetitive Peak Forward Surge Current, 60Hz	IFSM	500	mA
Operating and Storage Temperature Range	Тл, Тѕтс	-55 to +150	°C

Thermal Characteristics

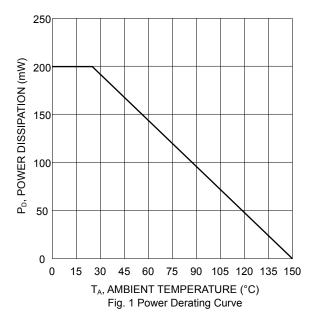
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	PD	200	mW
Thermal Resistance, Junction to Ambient (Note 1)	R JA	635	°C/W

Note: 1. Mounted on FR-4 PC board with minimum recommended pad layout.



Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic	Symbol	Min.	Тур.	Max.	Unit	
Reverse Breakdown Voltage	@ IR = 100μA	V(BR)	70			V
Forward Voltage Drop	@ IF = 1.0mA @ IF = 100mA	VFM	0.55 0.85		0.7 1.1	٧
Peak Reverse Leakage Current	@ VR = 50V	IRM			100	nA
Diode Capacitance (VR = 0V, f = 1.0MHz)	C _D			2.5	pF	
Reverse Recovery Time (IF = IR = 10mA, IRR	trr			4.0	nS	



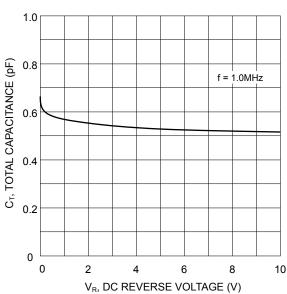
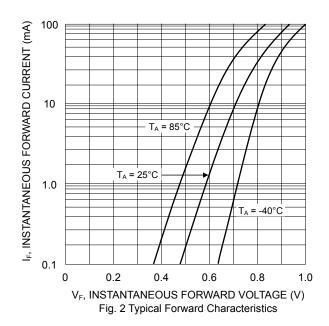
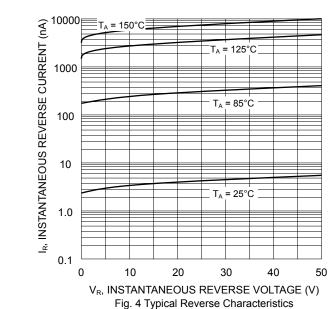


Fig. 3 Total Capacitance vs. Reverse Voltage

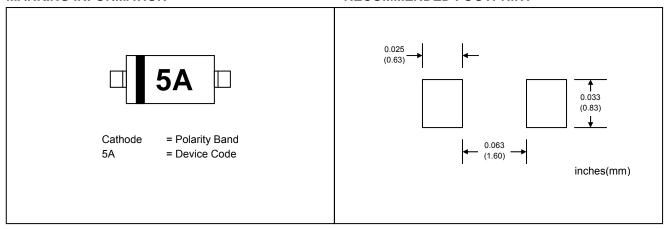






MARKING INFORMATION

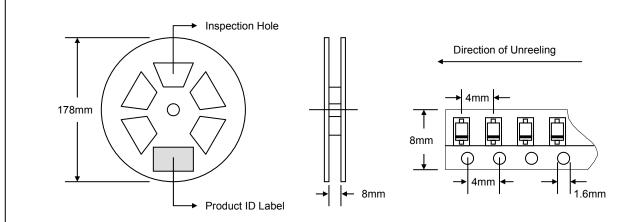
RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



TAPE & REEL



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
178	3,000	187 x 187 x 65	15,000	390 x 240 x 420	150,000	7.0

Note: 1. Anti-static plastic reel, white, water clear or blue color. Inspection hole might be varied in different alignment. 2. Components are packed in accordance with EIA standard 481-1 and 481-2.



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
MMDL6050-T1	SOD-323	3000/Tape & Reel

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, MMDL6050-T1-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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