

MD5020, MD5024, MD5036

50A AVALANCHE MOTOROLA TYPE PRESS-FIT DIODE

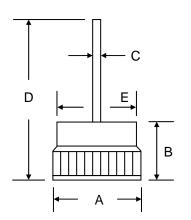


Features

- Diffused Junction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Typical IR less than 200nA

Mechanical Data

- Case: 13mm Motorola Type Press-Fit
- Terminals: Contact Areas Readily Solderable
- Polarity: Cathode to Case (Reverse Units Are Available Upon Request and Are Designated By A "R" Suffix, i.e. MD5020R or MD5024R)
- Polarity: Red Color Equals Standard, Black Color Equals Reverse Polarity
- Mounting Position: Any
- Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 2





13mm Motorola					
Dim	Min Max				
Α	12.80	13.20			
В	7.70	8.10			
С	1.25	1.31			
D	25.00	_			
E	11.10	11.50			
All Dimensions in mm					

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

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

Characteristic		Symbol	MD5020	MD5024	MD5036	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	16	20	32	V
Average Rectified Output Current	@T _C = 150°C	lo	50		Α	
Breakdown Voltage Min. Breakdown Voltage Max.	@I _R = 100mA @I _R = 100mA	VBR	20 26	24 32	36 42	V
Non-Repetitive Peak Forward Surge 8.3ms Single Half Sine-Wave Superi Rated Load (JEDEC Method)		IFSM		500		А
Forward Voltage	$@I_F = 50A$	VFM	1.0		V	
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C	Irm	200		nA	
Typical Junction Capacitance (Note 1)		Сл	400		pF	
Typical Thermal Resistance (Note 2)		R JC	1.0		°C/W	
Operating and Storage Temperature Range		TJ, TSTG	-65 to +175		°C	

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance: Junction to case, single side cooled.



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity		
MD5020	13mm Motorola Press-Fit	180 Units/Box		
MD5024	13mm Motorola Press-Fit	180 Units/Box		
MD5036	13mm Motorola Press-Fit	180 Units/Box		

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, MD5020-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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