

MD5000 – MD5006 🎎 🔁

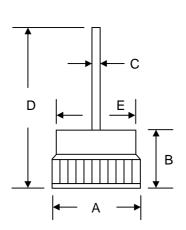
50A MOTOROLA TYPE PRESS-FIT DIODE

Features

- Diffused Junction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Typical IR less than 5.0µA

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. MD5002R or MD5004R)
- 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	_			
Е	11.10	11.50			
All Dimensions in mm					

Anode +

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	MD5000	MD5001	MD5002	MD5003	MD5004	MD5005	MD5006	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	300	400	500	600	V
RMS Reverse Voltage	VR(RMS)	35	70	140	210	280	350	420	V
Average Rectified Output Current @T _c = 150°C	ю	50						А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	500					A		
Forward Voltage $@I_F = 50A$	Vfm				1.0				V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	5.0 500					μA		
Typical Junction Capacitance (Note 1)	Cj	400					pF		
Typical Thermal Resistance (Note 2)	R	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.

Product No.	Package Type	Shipping Quantity
MD5000	13mm Motorola Press-Fit	100 Units/Box
MD5001	13mm Motorola Press-Fit	100 Units/Box
MD5002	13mm Motorola Press-Fit	100 Units/Box
MD5003	13mm Motorola Press-Fit	100 Units/Box
MD5004	13mm Motorola Press-Fit	100 Units/Box
MD5005	13mm Motorola Press-Fit	100 Units/Box
MD5006	13mm Motorola Press-Fit	100 Units/Box

ORDERING INFORMATION

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

2. To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, MD5000-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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