

50A HIGH VOLTAGE MOTOROLA TYPE PRESS-FIT DIODE

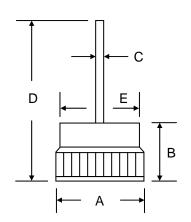


Features

- Glass Passivated Die Construction
- 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. MD50160R)
- 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					

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	MD50160	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	1600	V
RMS Reverse Voltage	VR(RMS)	1120	V
Average Rectified Output Current @T _C = 150°C	lo	50	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	500	А
Forward Voltage @I _F = 50A	VFM	1.2	٧
	IRM	5.0 500	μΑ
Typical Junction Capacitance (Note 1)	Сл	400	pF
Typical Thermal Resistance (Note 2)	R JC	1.0	°C/W
Operating and Storage Temperature Range	ТЈ, ТЅТС	-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
MD50160	13mm Motorola Press-Fit	180 Units/Box

- 1. 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, MD50160-LF. 2.

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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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