

MD3500 - MD3506

Anode +

35A MOTOROLA TYPE PRESS-FIT DIODE

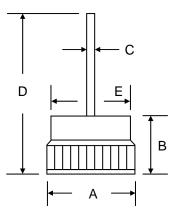


Features

- 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. MD3502R or MD3504R)
- 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 @TA=25°C unless otherwise specified

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

Characteristic	Symbol	MD3500	MD3501	MD3502	MD3503	MD3504	MD3505	MD3506	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	lo				35				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM				400				A
Forward Voltage @I _F = 35A	Vfм	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)	Сл				300				pF
Typical Thermal Resistance (Note 2)	R JC	1.2					°C/W		
Operating and Storage Temperature Range	TJ, TSTG			-	65 to +17	5			°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			
MD3500	13mm Motorola Press-Fit	180 Units/Box			
MD3501	13mm Motorola Press-Fit	180 Units/Box			
MD3502	13mm Motorola Press-Fit	180 Units/Box			
MD3503	13mm Motorola Press-Fit	180 Units/Box			
MD3504	13mm Motorola Press-Fit	180 Units/Box			
MD3505	13mm Motorola Press-Fit	180 Units/Box			
MD3506	13mm Motorola Press-Fit	180 Units/Box			

ORDERING INFORMATION

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, MD3500-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.

Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung 806, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410 Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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