WON-TOP ELECTRONICS

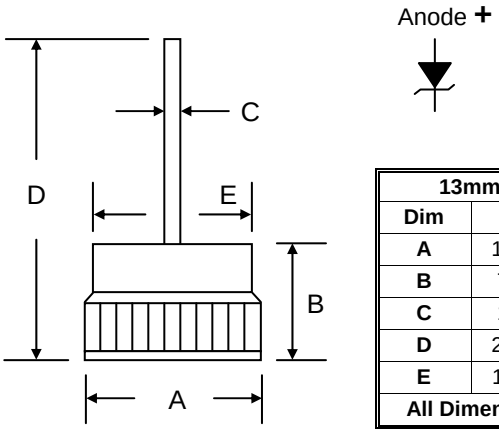
MD3520, MD3524, MD3536

35A AVALANCHE MOTOROLA TYPE PRESS-FIT DIODE

RoHS Pb

Features

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



13mm Motorola		
Dim	**Min**	**Max**
A	12.80	13.20
B	7.70	8.10
C	1.25	1.31
D	25.00	—
E	11.10	11.50
All Dimensions in mm		

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. MD3520R or MD3524R)
- 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**

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	MD3520	MD3524	MD3536	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	16	20	32	V
Average Rectified Output Current @T_C = 150°C	I_O	35			A
Breakdown Voltage Min. @I_R = 100mA Breakdown Voltage Max. @I_R = 100mA	V_{BR}	20 26	24 32	36 42	V
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	400			A
Forward Voltage @I_F = 35A	V_{FM}	1.0			V
Peak Reverse Current At Rated DC Blocking Voltage @T_A = 25°C	I_{RM}	200			nA
Typical Junction Capacitance (Note 1)	C_J	300			pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	1.2			°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-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.

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ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
MD3520	13mm Motorola Press-Fit	180 Units/Box
MD3524	13mm Motorola Press-Fit	180 Units/Box
MD3536	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.
2. **To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, MD3520-LF.**

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We power your everyday.