

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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ER3A-HT THRU ER3M-HT

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- High surge current capability
- · High reliability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -55°C to +125°C
 Storage Temperature: -55°C to +150°C
- MCC Part Device Maximum Maximum Maximum DC Number Marking Recurrent **RMS Blocking** Peak Reverse Voltage Voltage Voltage ER3A-HT ER3A 50V 35V 50V ER3B-HT ER3B 100V 70V 100V ER3D **ER3D-HT** 200V 140V 200V ER3G-HT ER3G 400V 280V 400V 420V ER3J-HT 600V ER3J 600V ER3K-HT ER3K 800V 560V 800V 1000V ER3M-HT ER3M 700V 1000V

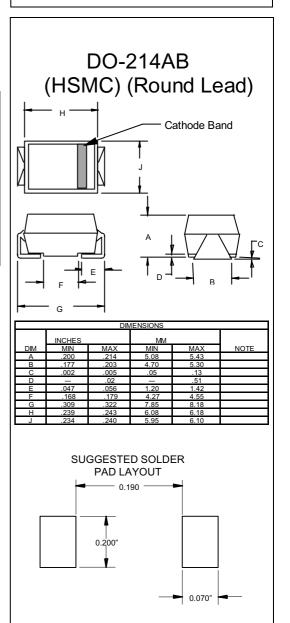
Electrical Characteristics @ 25° C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	3.0A	T _A = 55°C
Peak Forward Surge Current	I _{FSM}	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage ER3A-HT~ER3D-HT ER3G-HT ER3J-HT~ER3M-HT	V_{F}	1.0V 1.3V 1.7V	I _{FM} = 3.0A; T _A = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10uA 200uA	T _A = 25°C T _A = 100°C
Maximum Reverse Recovery Time ER3A-HT~ER3G-HT ER3J-HT~ER3M-HT	Trr	50ns 75ns	I _F =0.5A, I _R =1.0A I _{RR} =0.25A
Typical Junction Capacitance ER3A-HT~ER3G-HT ER3J-HT~ER3M-HT	С	80pF 50pF	Measured at 1.0MHz, V _R =4.0V

^{*}Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

3.0 Amp High Efficient Rectifiers 50 to 1000 Volts



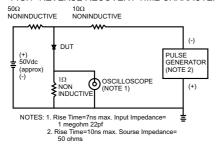
ER3A-HTTHRU ER3M-HT

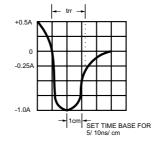


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RATINGS AND CHARACTERISTIC CURVES

FIG.1- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





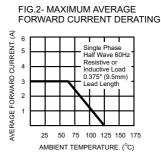
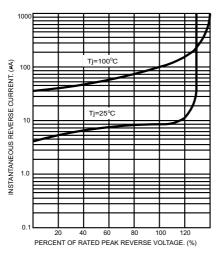
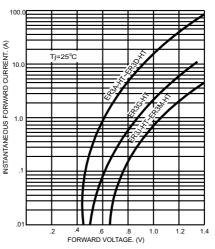
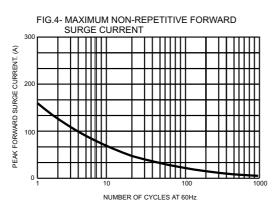


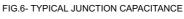
FIG.3- TYPICAL REVERSE CHARACTERISTICS

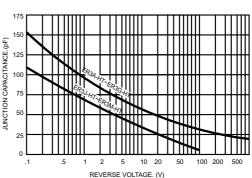














Ordering Information:

Device	Packing	
Part Number-TP	Tape&Reel: 1.5Kpcs/Reel	

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