

Micro Commercial Components



Micro Commercial Components 130 W Cochran St, Unit B Simi Valley, CA 93065 Tel:818-701-4933

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Easy Pick And Place
- High Temp Soldering: 260 °C for 10 Seconds At Terminals
- Super Fast Recovery Times For High Efficiency
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Operating Temperature: -50°C to +175°C
- Storage Temperature: -50°C to +175°C
- Typical Thermal Resistance; 16 °C/W Junction To Lead

MCC Catalog	Device Marking	Maximum Recurrent	Maximum RMS	Maximum DC		
Number	Ű	Peak Reverse Voltage		Blocking		
		Voltage	Ū.	Voltage		
ER3A	ER3A	50V	35V	50V		
ER3B	ER3B	100V	70V	100V		
ER3C	ER3C	150V	105V	150V		
ER3D	ER3D	200V	140V	200V		
ER3G	ER3G	400V	280V	400V		
ER3J	ER3J	600V	420V	600V		
ER3K	ER3K	800V	560V	800V		
ER3M	ER3M	1000V	700V	1000V		

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	3.0A	T _L = 75°C
Peak Forward Surge Current	I _{FSM}	100A	8.3ms, half sine
Maximum Instantaneous Forward Voltage ER3A-3D ER3G ER3J~3M	V _F	.95V 1.25V 1.70V	I _{FM} = 3.0A; T _J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 200μΑ	T _J = 25°C T _J = 100°C
Maximum Reverse Recovery Time ER3A~ER3J ER3K~ER3M	Trr	35ns 75ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Typical Junction Capacitance	CJ	45pF	Measured at 1.0MHz, V _R =4.0V

*Pulse test: Pulse width 300 μsec, Duty cycle 2% 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

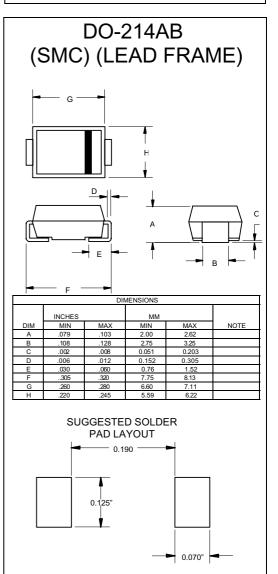
Revision: D

vww.mccsemi.com

ER3A THRU

ER3M

3 Amp Super Fast Recovery Silicon Rectifier 50 to 1000 Volts



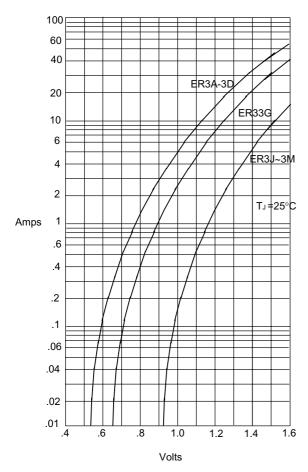
2014/03/07



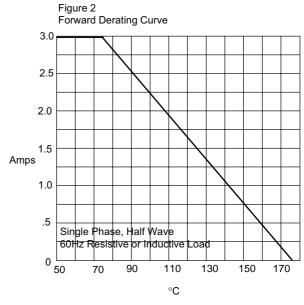
ER3A thru ER3M

Figure 1

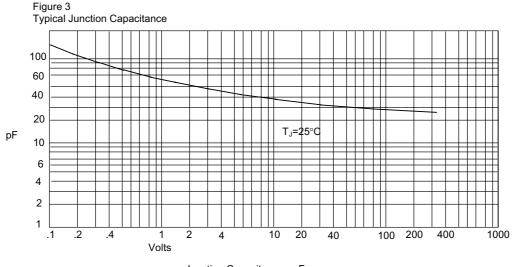




Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes/ersus Lead Temperature $-^\circ\text{C}$



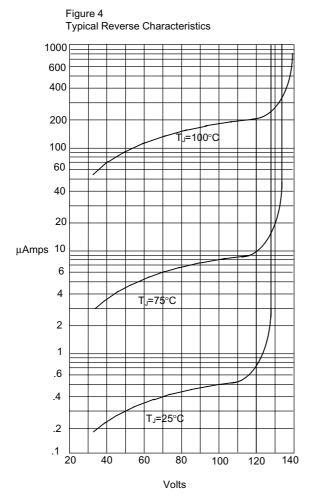
Junction Capacitance - pF*versus* Reverse Voltage - Volts

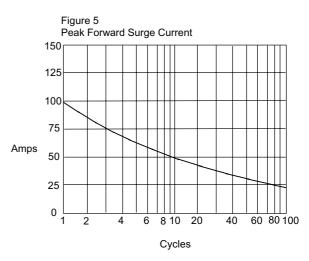
- www.mccsemi.com

Revision: D



ER3A thru ER3M



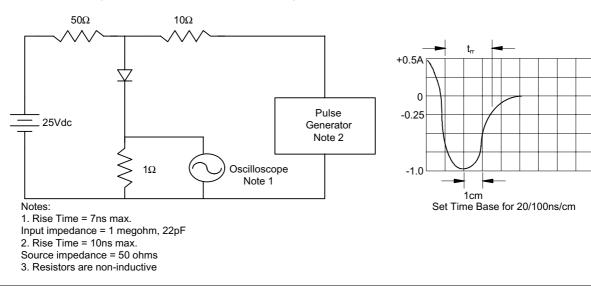


Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Instantaneous Reverse Leakage Current - MicroAmperesersus Percent Of Rated Peak Reverse Voltage - Volts

Figure 6

Reverse Recovery Time Characteristic And Test Circuit Diagram



www.mccsemi.com



2014/03/07



Ordering Information :

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

www.mccsemi.com

2014/03/07

单击下面可查看定价,库存,交付和生命周期等信息

>>MCC(美微科)