

Micro Commercial Components



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Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- 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 Effieciency
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C
- Typical Thermal Resistance; 16 °C/W Junction To Lead

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse	Maximum RMS Voltage	Maximum DC Blocking		
		Voltage		Voltage		
ER3AB	ER3AB	50V	35V	50V		
ER3BB	ER3BB	100V	70V	100V		
ER3CB	ER3CB	150V	105V	150V		
ER3DB	ER3DB	200V	140V	200V		
ER3GB	ER3GB	400V	280V	400V		
ER3JB	ER3JB	600V	420V	600V		
ER3KB	ER3KB	800V	560V	800V		
ER3MB	ER3MB	1000V	700V	1000V		

Electrical Characteristics @ 25°C Unless Otherwise Specified

			-		
Average Forward Current	$I_{F(AV)}$	3.0A	$T_A = 75^{\circ}C$		
Peak Forward Surge	I _{FSM}	100A	8.3ms, half sine		
Current					
Maximum					
Instantaneous					
Forward Voltage					
ER3AB-3DB	V _F	.95V	I _{FM} = 3.0A;		
ER3GB		1.25V	T _J = 25°C*		
ER3JB~3MB		1.70V			
Maximum DC					
Reverse Current At	I _R	5μΑ	T,₁ = 25°C		
Rated DC Blocking		200µA	T _J = 100°C		
Voltage					
Maximum Reverse			I _F =0.5A, I _R =1.0A,		
Recovery Time	-	35ns	I _{rr} =0.25A		
ER3AB~ER3JB	Trr	75ns			
ER3KB~ER3MB					
Typical Junction	CJ	45pF	Measured at		
Capacitance			1.0MHz, V _R =4.0V		

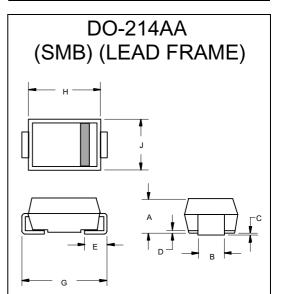
*Pulse test: Pulse width 300 µsec, Duty cycle 2% 1. High Temperature Solder Exemptions Applied. see EU Directive Annex 7.

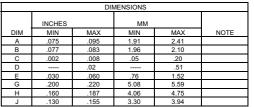
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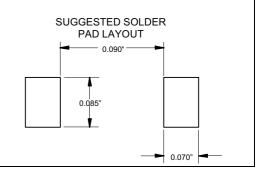
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ER3AB THRU ER3MB

3 Amp Super Fast Recovery Silicon Rectifier 50 to 1000 Volts



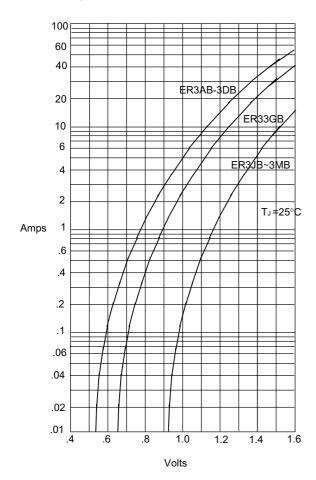




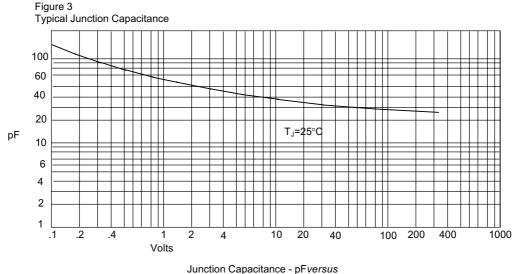
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ER3AB thru ER3MB

Figure 1 Typical Forward Characteristics



Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



Reverse Voltage - Volts

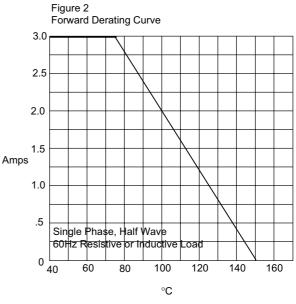
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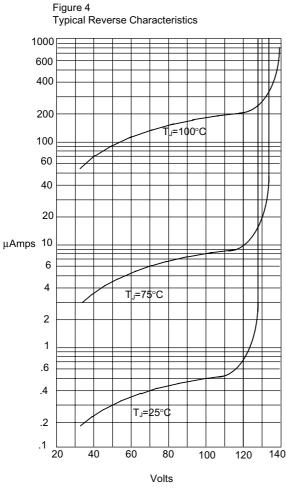


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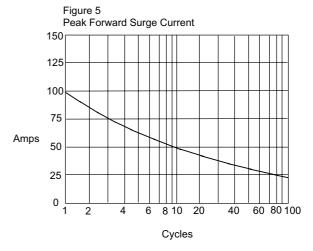


Average Forward Rectified Current - Amperes/*ersus* Lead Temperature -°C

ER3AB thru ER3MB



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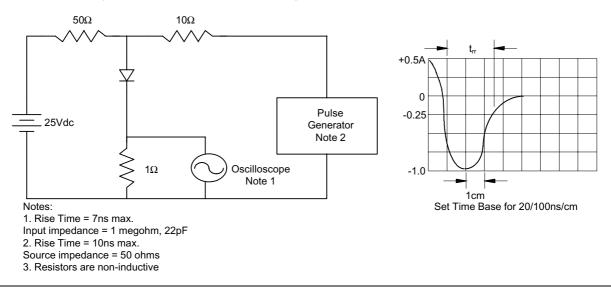


Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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

Figure 6

Reverse Recovery Time Characteristic And Test Circuit Diagram



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Ordering Information :

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

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

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