

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ER3A **THRU** ER3M

- 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

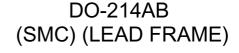
- Operating Temperature: -50°C to +175°C Storage Temperature: -50°C to +175°C
- Typical Thermal Resistance; 16°C/W Junction To Lead

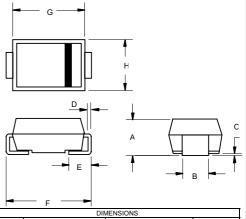
MCC Catalog	Device Marking	Maximum Recurrent	Maximum RMS	Maximum DC
Number		Peak Reverse	Voltage	Blocking
		Voltage	_	Voltage
ER3A	ER3A	50V	35V	50V
ER3B	ER3B	100V	70V	100V
ER3C	ER3C	150V	105V	150V
ER3D	ER3D	200V	140V	200V
ER3G	ER3G	400V	280V	400V
ER3J	ER3J	600V	420V	600V
ER3K	ER3K	800V	560V	800V
ER3M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

Electrical Characteristics @ 25°C Unless Otherwise Specified

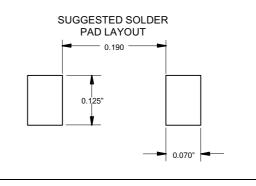
Average Forward Current	I _{F(AV)}	3.0A	$T_L = 75^{\circ}C$
Peak Forward Surge	I _{FSM}	100A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
ER3A-3D	V_{F}	.95V	$I_{FM} = 3.0A;$
ER3G		1.25V	T _J = 25°C*
ER3J~3M		1.70V	
Maximum DC			
Reverse Current At	I_R	5μΑ	T _J = 25°C
Rated DC Blocking		200μΑ	T _J = 100°C
Voltage		200μ.	15 100 0
Maximum Reverse		05	I _F =0.5A, I _R =1.0A,
Recovery Time	Trr	35ns	I _{rr} =0.25A
ER3A~ER3J		75ns	
ER3K~ER3M			
Typical Junction	CJ	45pF	Measured at
Capacitance		,	1.0MHz, V _R =4.0V

3 Amp Super Fast Recovery Silicon Rectifier 50 to 1000 Volts





Billettolotto						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.079	.103	2.00	2.62		
В	.108	.128	2.75	3.25		
С	.002	.008	0.051	0.203		
D	.006	.012	0.152	0.305		
ш	.030	.050	0.76	1.27		
F	305	.320	7.75	8.13		
G	.260	.280	6.60	7.11		
Η	.220	.245	5.59	6.22		



^{*}Pulse test: Pulse width 300 µsec, Duty cycle 2%

ER3A thru ER3M

Figure 1
Typical Forward Characteristics



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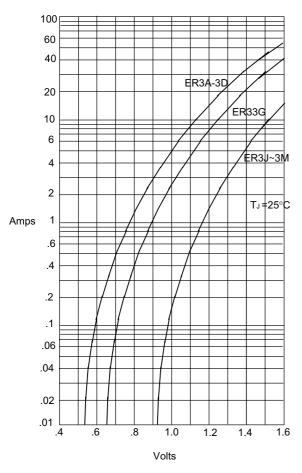
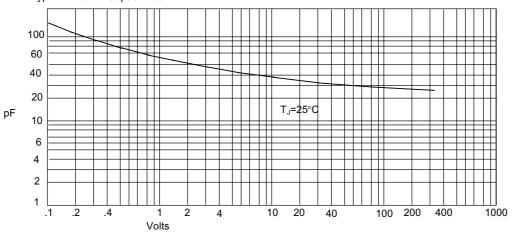


Figure 2 Forward Derating Curve 3.0 2.5 2.0 1.5 Amps 1.0 Single Phase, Half Wave 60Hz Resistive or Inductive Load 170 90 110 130 150 ٥С

Average Forward Rectified Current - Amperesversus Lead Temperature -°C

Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

Figure 3
Typical Junction Capacitance



Junction Capacitance - pF*versus* Reverse Voltage - Volts

ER3A thru ER3M

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Figure 4
Typical Reverse Characteristics

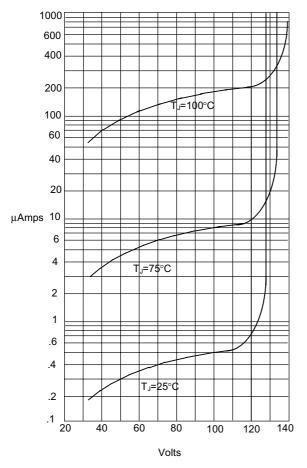


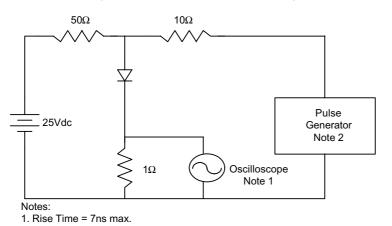
Figure 5 Peak Forward Surge Current 150 125 100 75 Amps 50 25 0 20 60 80 100 6 8 10 40 Cycles

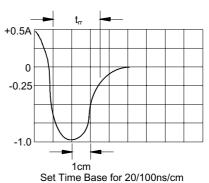
> Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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

Figure 6
Reverse Recovery Time Characteristic And Test Circuit Diagram

Input impedance = 1 megohm, 22pF 2. Rise Time = 10ns max. Source impedance = 50 ohms 3. Resistors are non-inductive





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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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