

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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Micro Commercial Components



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ER1A-L **THRU ER1J-L**

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
 Halogen free available upon request by adding suffix "-HF"
 Epoxy meets UL 94 V-0 flammability rating

- Moisture Sensitivity Level 1
- Built-in strain relief
- Super fast switching speed under 35ns
- Marking: Cathode band and type number (No '-L' Suffix)

- Operating Temperature: -65°C to +175°C
- Storage Temperature: -65°C to +175°C

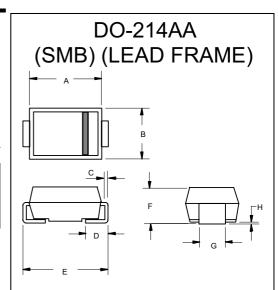
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
ER1A-L	50V	35V	50V
ER1B-L	100V	70V	100V
ER1D-L	200V	140V	200V
ER1G-L	400V	280V	400V
ER1J-L	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

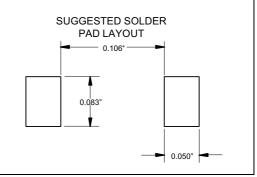
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Average Forward Current	$I_{F(AV)}$	1.0A	T _L = 150°C		
Peak Forward Surge	I _{FSM}	30A	8.3ms, half sine		
Current					
Maximum					
Instantaneous					
Forward Voltage					
ER1A-L-ER1D-L	V_{F}	.95V	$I_{FM} = 1.0A;$		
ER1G-L		1.25V	,		
ER1J-L		1.70V			
Maximum DC					
Reverse Current At	I_R	5μΑ	T _A = 25°C		
Rated DC Blocking		80μΑ	T _A = 100°C		
Voltage			, , , , , , , , , , , , , , , , , , ,		
Maximum Reverse	T _{rr}	35ns	I _F =0.5A, I _R =1.0A,		
Recovery Time			I _{rr} =0.25A		
Typical Junction	CJ	15pF	Measured at		
Capacitance			1.0MHz, V _R =4.0V		

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

1 Amp Super Fast **Recovery Rectifier** 50 to 600 Volts



DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.160	.185	4.06	4.70		
В	.130	.155	3.30	3.94		
С	.006	.012	0.15	0.31		
D	.030	.060	0.76	1.52		
E	.200	.220	5.08	5.59		
F	.079	.096	2.00	2.44		
G	.075	.087	1.91	2.21		
Н	.002	.008	0.05	0.203		



ER1A-L thru ER1J-L



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FIG.1-TYPICAL FORWARD

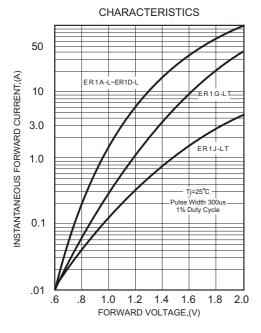
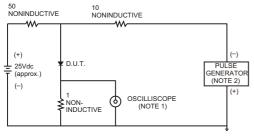


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE

RECOVERY TIME CHARACTERISTICS



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF

2. Rise Time= 10ns max., Source Impedance= 50 ohms

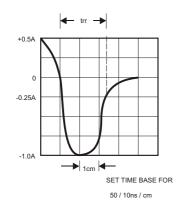


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

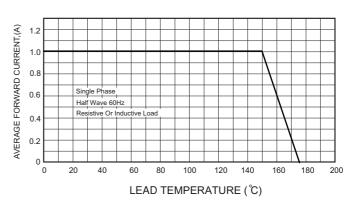


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

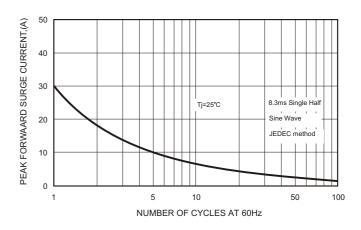
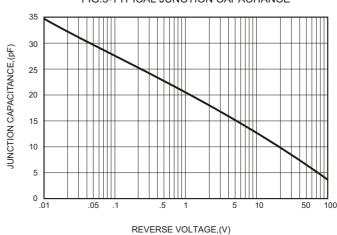


FIG.5-TYPICAL JUNCTION CAPACITANCE





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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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