



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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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)

axımum Ratıngs

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

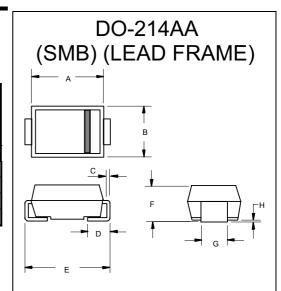
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
ER1A-L	50V	35V	50V
ER1B-L	100V	70V	100V
ER1D-L	200V	140V	200V
ER1G-L	400V	280V	400V
ER1J-L	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

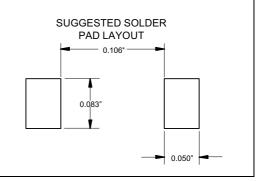
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Average Forward Current	I _{F(AV)}	1.0A	T _L = 150°C
Peak Forward Surge	I _{FSM}	30A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
ER1A-L-ER1D-L	V_{F}	.95V	$I_{FM} = 1.0A;$
ER1G-L		1.25V	
ER1J-L		1.70V	
Maximum DC			
Reverse 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
Typical Thermal	RthJL	13°C/W	
Resistance			

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

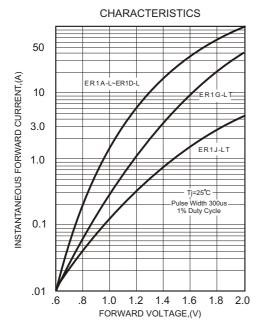
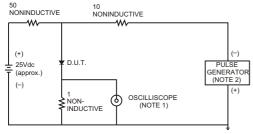


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE

RECOVERY TIME CHARACTERISTICS



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

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

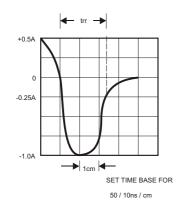


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

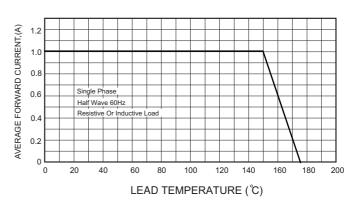


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

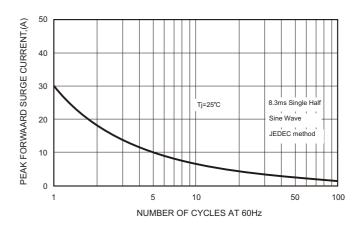
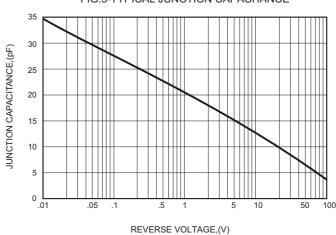


FIG.5-TYPICAL JUNCTION CAPACITANCE





Ordering Information:

Device	Packing	
ER1 A-LTP~ ER1 J-LTP	Tape&Reel: 3Kpcs/Reel	

Note: Adding "-HF" suffix for halogen free, eg. ER1A-LTP-HF~ER1J-LTP-HF

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