

Micro Commercial Components



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ER2A-L **THRU ER2J-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

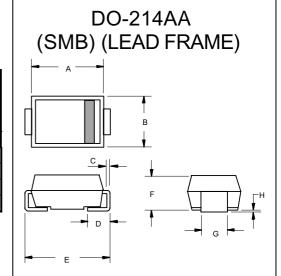
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
ER2A-L	50V	35V	50V
ER2B-L	100V	70V	100V
ER2D-L	200V	140V	200V
ER2G-L	400V	280V	400V
ER2J-L	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

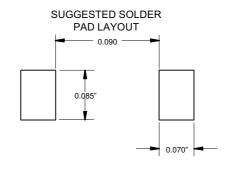
Average Forward Current	$I_{F(AV)}$	2.0A	T _L = 110°C
Peak Forward Surge Current	I _{FSM}	50A	8.3ms, half sine
Maximum Instantaneous Forward Voltage ER2A-L-ER2D-L ER2G-L ER2J-L	V _F	.95V 1.25V 1.70V	I _{FM} = 2.0A;
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 0.35mA	$T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$
Maximum Reverse Recovery Time	T _{rr}	35ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz, V _R =4.0V

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

2 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		
Е	.200	.220	5.08	5.59		
F	.079	.096	2.00	2.44		
G	.075	.087	1.91	2.21		
Η	.002	.008	0.05	0.203		



ER2A-L thru ER2J-L



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FIG.1-TYPICAL FORWARD

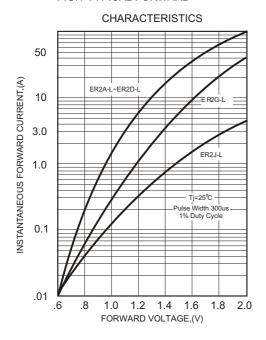
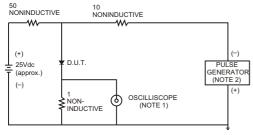


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE

RECOVERY TIME CHARACTERISTICS



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

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

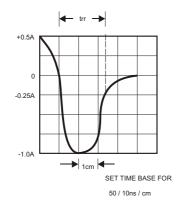


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

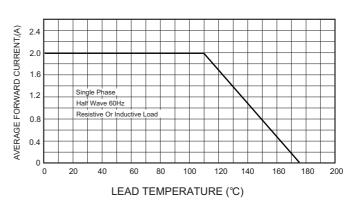


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

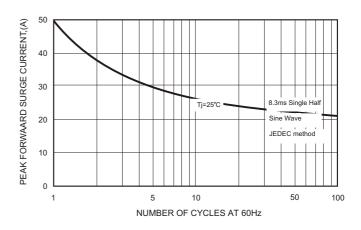
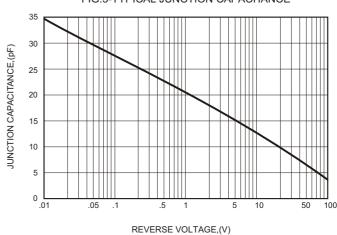


FIG.5-TYPICAL JUNCTION CAPACITANCE





Ordering Information:

Device	Packing	
ER2 A-LTP~ ER2 J-LTP	Tape&Reel: 3 Kpcs/Reel	

Note: Adding "-HF" suffix for halogen free, eg. ER2A-LTP-HF~ER2J-LTP-HF

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