

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 (818) 701-4939 Fax:

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information) 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)
- Halogen free available upon request by adding suffix "-HF"

aximum Ratings

- 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
ES1A-L	50V	35V	50V
ES1B-L	100V	70V	100V
ES1D-L	200V	140V	200V
ES1G-L	400V	280V	400V
ES1J-L	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0A	T _L = 125℃
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage ES1A-L-ES1D-L	VF	.95V	I _{EM} = 1.0A;
ESTA-L-ESTD-L ES1G-L ES1J-L	VF	1.25V 1.70V	$T_{FM} = 1.0A,$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 80μΑ	T _A = 25℃ T _A = 100℃
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

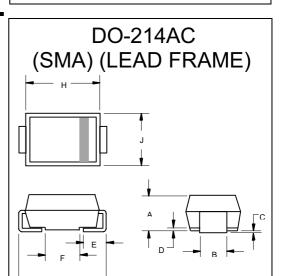
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

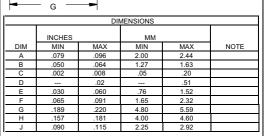
1 Amp Super Fast **Recovery Rectifier** 50 to 600 Volts

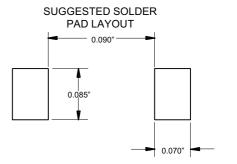
ES1A-L

THRU

ES1J-L







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Revision: C

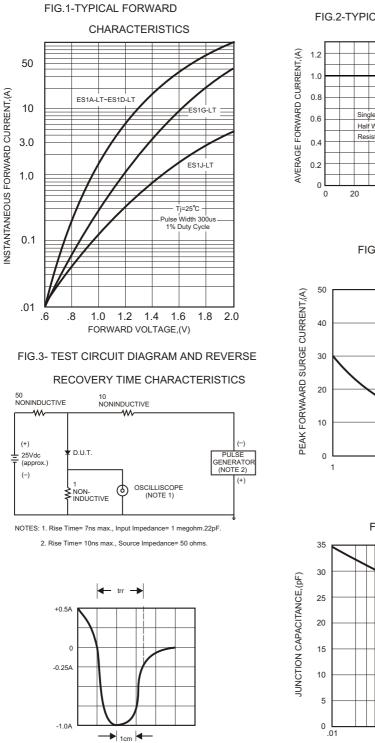
2013/01/01

ES1A-L thru ES1J-L



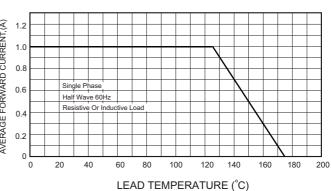
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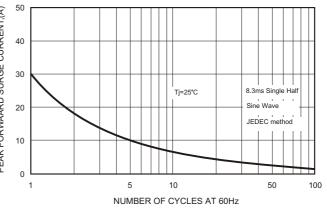


SET TIME BASE FOR

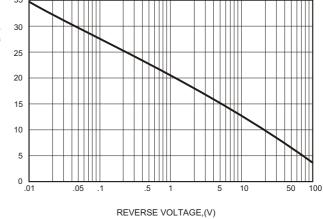
50 / 10ns / cm











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Ordering Information :

Device	Packing	
Part Number-TP	Tape&Reel: 5Kpcs/Reel	

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

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LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

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