

## 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
- Halogen Free. "Green" Device (Note 2)

## **Maximum Ratings**

- Operating Junction Temperature Range: -65°C to +175°C
- Storage Temperature Range: -65°C to +175°C
- Maximum Thermal Resistance: 35°C/W Junction to Lead
- Maximum Thermal Resistance: 85°C/W Junction to Ambient

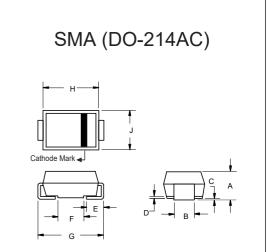
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
ES1A-L	ES1A	50V	35V	50V
ES1B-L	ES1B	100V	70V	100V
ES1D-L	ES1D	200V	140V	200V
ES1G-L	ES1G	400V	280V	400V
ES1J-L	ES1J	600V	420V	600V

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	1.0A	T <sub>L</sub> =125°C
Peak Forward Surge Current	I <sub>FSM</sub>	30A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage ES1A-L-ES1D-L ES1G-L ES1J-L	V <sub>F</sub>	0.95V 1.25V 1.70V	I <sub>FM</sub> =1.0A;
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	1.0μΑ 80μΑ	Tյ=25⁰C; Tյ=125⁰C
Maximum Reverse Recovery Time	T <sub>RR</sub>	35ns	I <sub>F</sub> =0.5A; I <sub>R</sub> =1.0A; Irr=0.25A
Typical Junction Capacitance ES1A-L-ES1D-L ES1G-L ES1J-L	CJ	18pF 12pF 10pF	Measured at 1.0MHz V <sub>R</sub> =4.0V

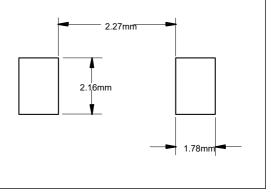
Note :1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7a.
2. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.</li>

# 1 Amp Super Fast Recovery Rectifier 50 to 600 Volts



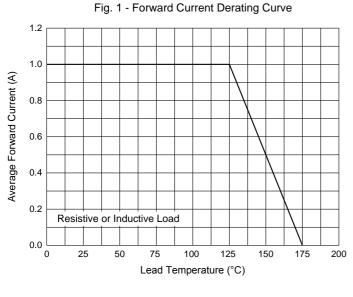
	DIMENSIONS						
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX	NOTE		
Α	0.075	0.096	1.90	2.44			
В	0.050	0.064	1.27	1.63			
С	0.002	0.008	0.051	0.203			
D		0.020		0.51			
E	0.030	0.060	0.76	1.52			
F	0.065	0.091	1.65	2.32			
G	0.189	0.220	4.80	5.59			
Н	0.157	0.187	4.00	4.75			
J	0.090	0.115	2.25	2.92			

#### SUGGESTED SOLDER PAD LAYOUT

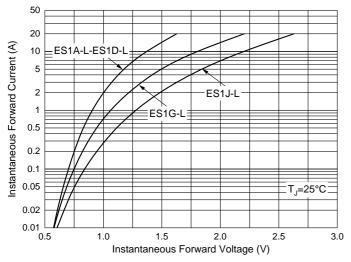


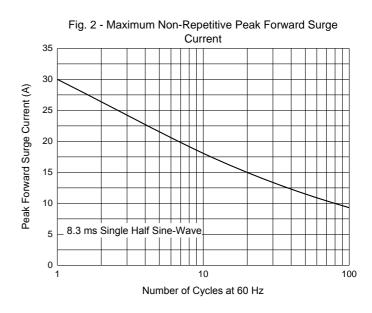


# **Curve Characteristics**

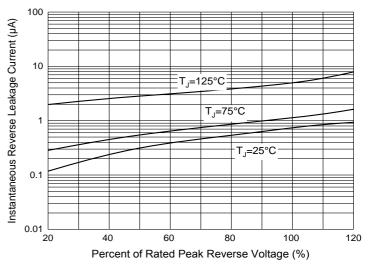














# **Ordering Information**

Device	Packing	
ES1A-LTP~ES1J-LTP	Tape&Reel: 5Kpcs/Reel	

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