

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)
- AEC-Q101 Qualified

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance(Note 3): 35°C/W Junction to Lead
- Thermal Resistance(Note 3): 85°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
ES1DHE3-L	ES1D	200V	140V	200V
ES1GHE3-L	ES1G	400V	280V	400V
ES1JHE3-L	ES1J	600V	420V	600V

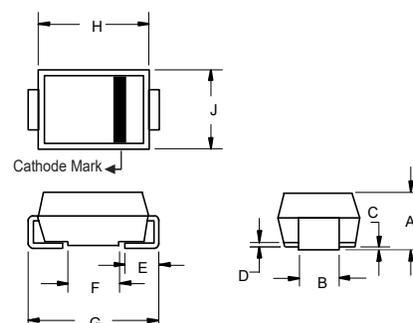
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.0A	$T_L=120^\circ\text{C}$	
Peak Forward Surge Current	I_{FSM}	30A	8.3ms,Half Sine	
Maximum Instantaneous Forward Voltage	V_F	ES1DHE3-L ES1GHE3-L ES1JHE3-L	$I_F=1.0A;$ 1.95V 1.30V 1.70V	
Maximum DC Reverse Current At Rated DC Blocking Voltage		I_R		5 μ A 100 μ A
Maximum Reverse Recovery Time				
Typical Junction Capacitance	C_J	ES1DHE3-L ES1GHE3-L~ES1JHE3-L	Measured at 1.0MHz $V_R=4.0V$ 20pF 12pF	

- 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.
 3. Mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas.

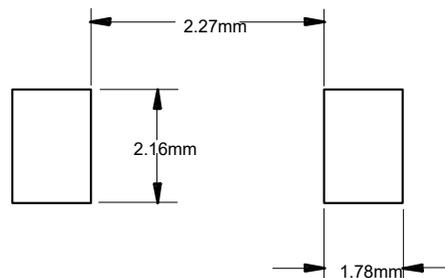
1 Amp Super Fast Recovery Rectifier 200 to 600 Volts

SMA (DO-214AC)



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.075	0.096	1.90	2.44	
B	0.050	0.064	1.27	1.63	
C	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	
H	0.157	0.187	4.00	4.75	
J	0.090	0.115	2.25	2.92	

SUGGESTED SOLDER PAD LAYOUT



Curve Characteristics

Fig. 1 - Forward Current Derating Curve

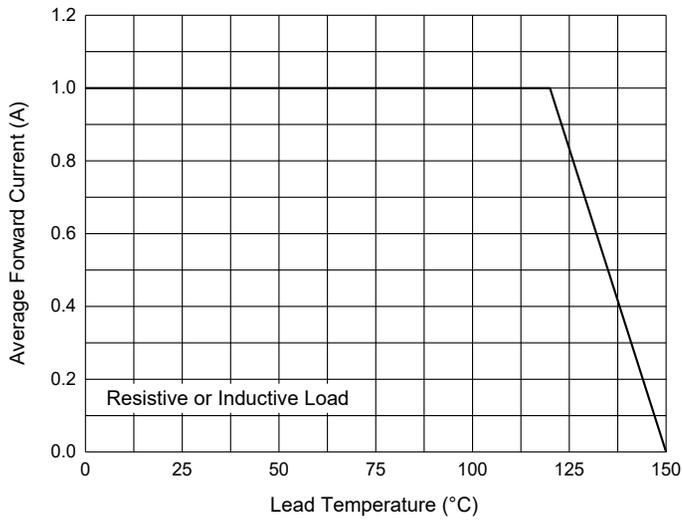


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

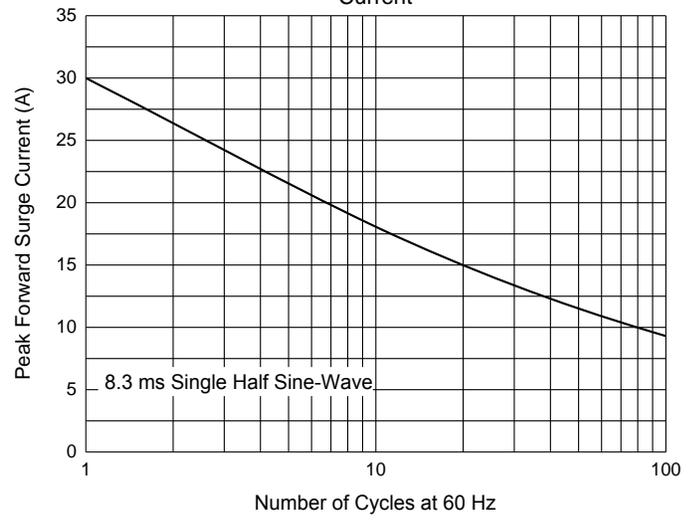


Fig. 3 - Typical Instantaneous Forward Characteristics

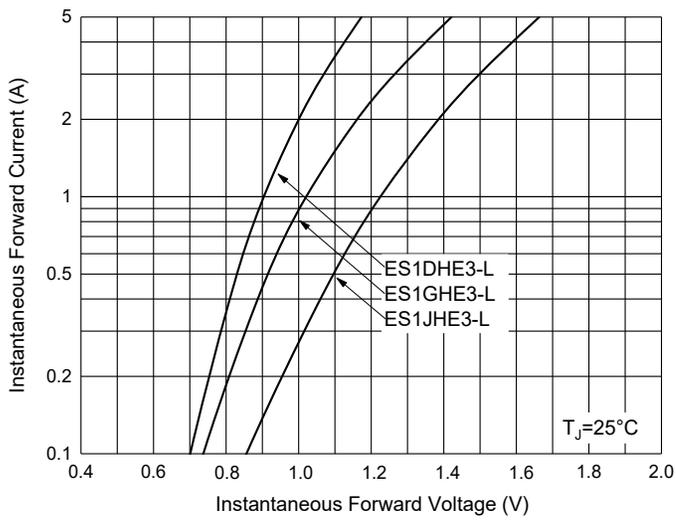
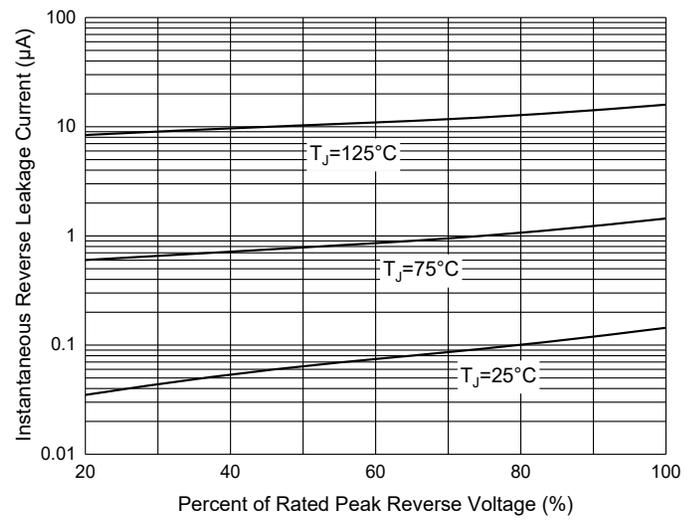


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
ES1DHE3-LTP~ES1JHE3-LTP	Tape&Reel: 5Kpcs/Reel

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