



M C C ES2B-L Super Fast Recovery Rectifier Instructions

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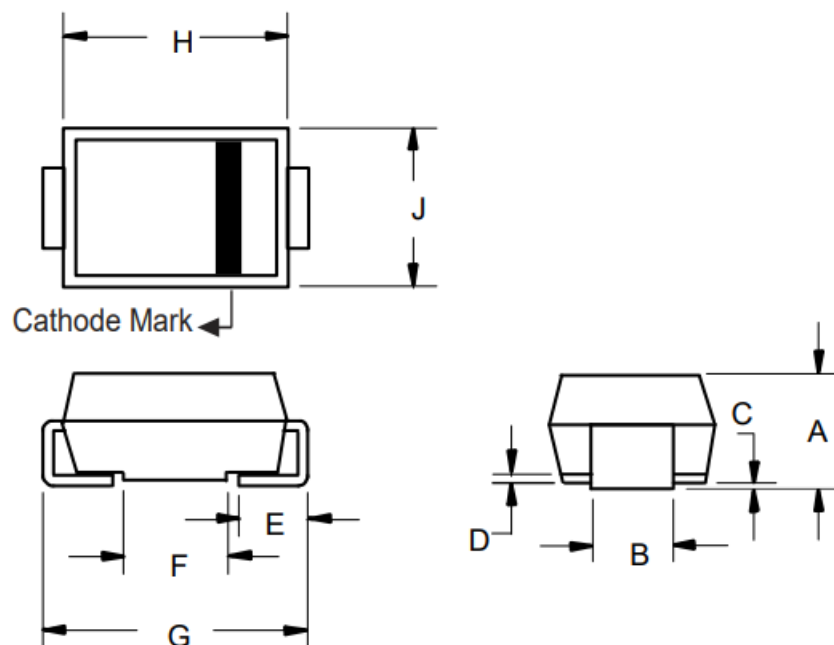


2 Amp Super Fast
Recovery
Rectifier
50 to 600 Volts
SMA (DO-214AC)

Contents

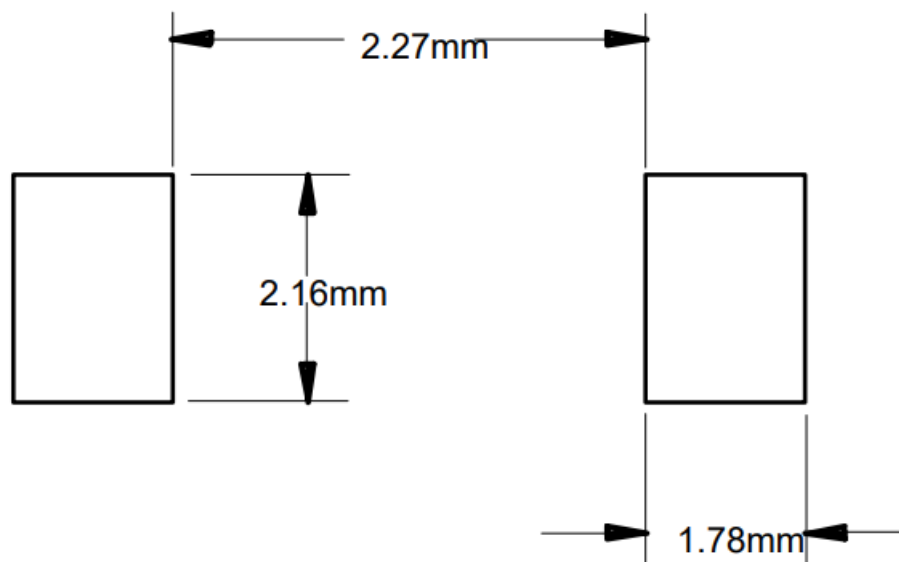
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ES2B-L Super Fast Recovery Rectifier



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.075	0.096	1.90	2.	
B	0.050	0.064	1.	2.	
C	0.002	0.008	0.051	0.203	
D	—	0.020	—	0.51	
E	0.030	0.060	0.76	2.	
F	0.065	0.091	2.	2.	
G	0.189	0.220	4.80	6.	
H	0.157	0.187	4.00	5.	
J	0.090	0.115	2.	3.	

SUGGESTED SOLDER PAD LAYOUT



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
- Glass Passivated Die Construction
- 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: 20°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Volta ge	Maximum RMS Voltage	Maximum DC Blocking Voltage
ES2A-L	ES2A	50V	35V	50V
ES2B-L	ES2B	100V	70V	100V
ES2C-L	ES2C	150V	105V	150V
ES2D-L	ES2D	200V	140V	200V
ES2G-L	ES2G	400V	280V	400V
ES2J-L	ES2J	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I F(AV)	2.0A	TL=110°C
Peak Forward Surge Current	I Fsm	50A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage ES2A-L-ES2D-L ES2G-L ES2J-L ES2J-L	VF	0.95V 1.25V 1.70V 0.975V(Typ) 1.25V(Max)	IFm=2.0A, TA=25°C IFm=2.0A, TA=25°C IFNA =2.0A; TA=25°C IFM=2.0A; TA=150°C IFM=2.0A; TA=150°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	IR	1.OpA 100uA TA=25°C;	TA=125°C
Maximum Reverse Recovery Time	try	35ns	IF=0.5A; IR=1.0A; Irr=0.25A
Typical Junction Capacitance	Cj	15pF	Measured at 1.0MHz VR=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.

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

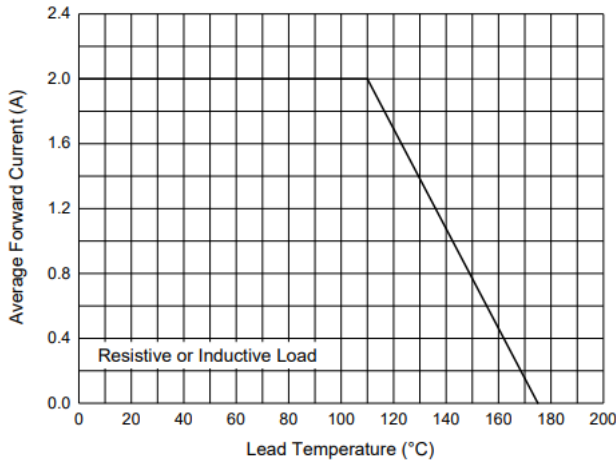


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

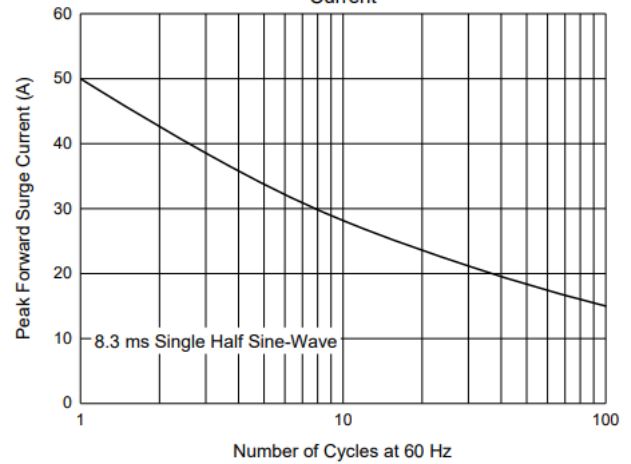


Fig. 3 - Typical Instantaneous Forward Characteristics

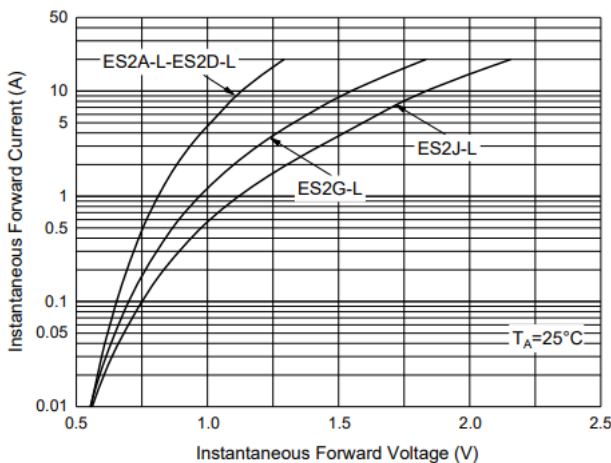
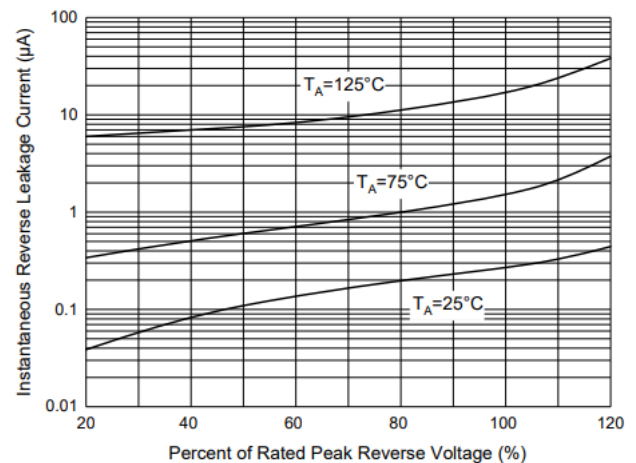


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
ES2A-LTP~ES2J-LTP	Tape&Reel: 5Kpcs/Reel

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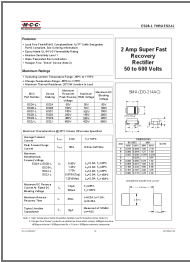
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