

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- · Super Fast Recovery Times For High Efficiency
- Halogen Free. "Green" Device (Note 2)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 12°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
ER5A	ER5A	50V	35V	50V
ER5B	ER5B	100V	70V	100V
ER5C	ER5C	150V	105V	150V
ER5D	ER5D	200V	140V	200V
ER5G	ER5G	400V	280V	400V
ER5J	ER5J	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

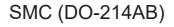
Average Forward Current	I _{F(AV)}	5.0A	T _L =85°C
Peak Forward Surge Current	I _{FSM}	175A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage ER5A-ER5D ER5G ER5J	V_{F}	1.00V 1.30V 1.70V	I _{FM} =5.0A; T _A =25°C*
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	5μΑ 100μΑ	T _A =25°C T _A =100°C
Maximum Reverse Recovery Time	t _{rr}	35ns	I _F =0.5A, I _R =1.0A, Irr=0.25A
Typical Junction Capacitance ER5A-ER5G ER5J	СJ	100pF 65pF	Measured at 1.0MHz V _R =4.0V

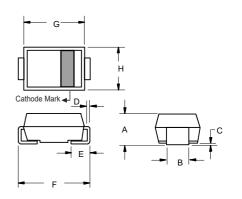
^{*}Pulse Test: Pulse Width 300 µsec, Duty Cycle 1%

Notes:

- 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.

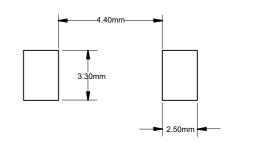
5 Amp Super Fast Recovery Rectifiers 50 to 600 Volts





DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.079	0.103	2.00	2.62		
В	0.108	0.128	2.75	3.25		
С	0.002	0.008	0.051	0.203		
D	0.006	0.012	0.152	0.305		
Е	0.030	0.060	0.76	1.52		
F	0.305	0.320	7.75	8.13		
G	0.260	0.280	6.60	7.11		
Н	0.220	0.245	5.59	6.22		

Suggested Solder Pad Layout





Curve Characteristics

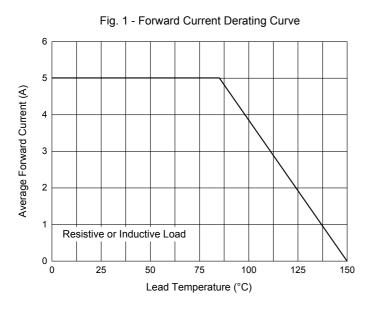


Fig. 3 - Typical Instantaneous Forward Characteristics

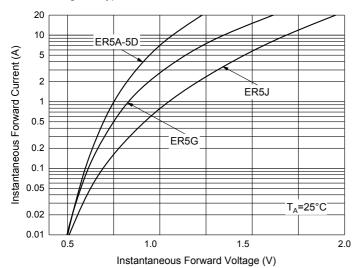
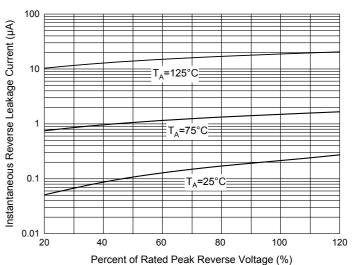


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

175
150
125
100
75
8.3 ms Single Half Sine-Wave
25
1 10 100
Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

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