

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)
- AEC-Q101 Qualified

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance(Note 3): 15°C/W Junction to Lead
- Typical Thermal Resistance(Note 3): 65°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
ER3DHE3	ER3D	200V	140V	200V
ER3GHE3	ER3G	400V	280V	400V
ER3JHE3	ER3J	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

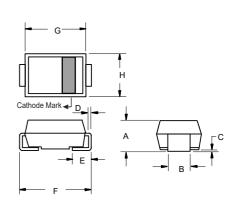
Average Forward Current	I _{F(AV)}	3.0A	T _L =80°C
Peak Forward Surge Current	I _{FSM}	100A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage ER3DHE3 ER3GHE3 ER3JHE3	V _F	0.95V 1.30V 1.70V	I _{FM} =3.0A; T _J =25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 100μΑ	T _J =25°C; T _J =125°C
Maximum Reverse Recovery Time	T _{RR}	35ns	I _F =0.5A; I _R =1.0A; Irr=0.25A
Typical Junction Capacitance	CJ	50pF	Measured at 1.0MHz V _R =4.0V

^{*}Pulse Test: Pulse Width 300 μ sec, Duty Cycle 2% Note :

- 1. High Temperature Solder Exemptions Applied, See EU Directive Annex 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 0.6" x 0.6" (16 mm x 16 mm) copper pad areas.

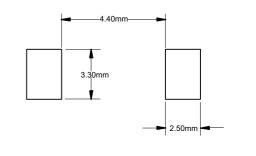
3 Amp Super Fast Recovery Silicon Rectifier 200 to 600 Volts

SMC (DO-214AB)



DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	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

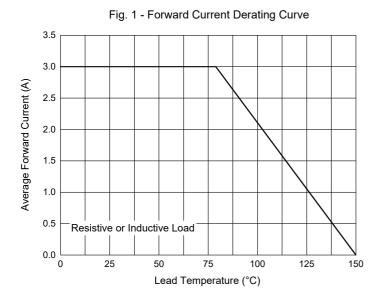


Fig. 3 - Typical Instantaneous Forward Characteristics

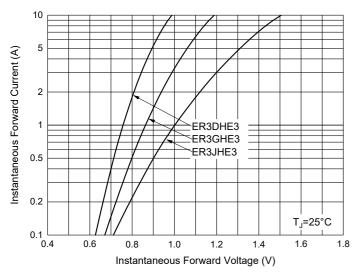


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

120

80

80

40

40

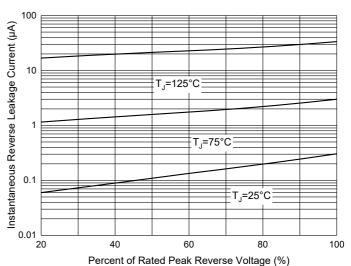
20

8.3 ms Single Half Sine-Wave

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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