

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
- Typical Thermal Resistance: 12°C/W Junction to Lead

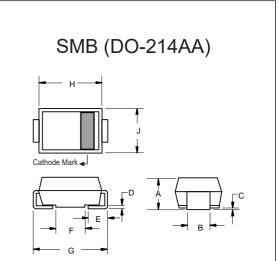
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
ER3AB	ER3AB	50V	35V	50V
ER3BB	ER3BB	100V	70V	100V
ER3CB	ER3CB	150V	105V	150V
ER3DB	ER3DB	200V	140V	200V
ER3GB	ER3GB	400V	280V	400V
ER3JB	ER3JB	600V	420V	600V
ER3KB	ER3KB	800V	560V	800V
ER3MB	ER3MB	1000V	700V	1000V

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 ER3AB-ER3DB ER3GB ER3JB-ER3MB	V _F	0.95V 1.25V 1.70V	I _{FM} =3.0A; T _J =25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 200μA	T _J =25°C; T _J =100°C
Maximum Reverse Recovery Time ER3AB~ER3JB ER3KB~ER3MB	T _{RR}	35ns 75ns	I _F =0.5A; I _R =1.0A; Irr=0.25A
Typical Junction Capacitance	CJ	45pF	Measured at 1.0MHz V _R =4.0V

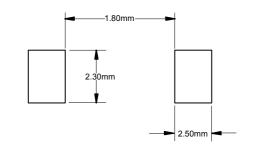
^{*}Pulse Test: Pulse Width 300 μ sec, Duty Cycle 2% Note :

3 Amp Super Fast Recovery Silicon Rectifier 50 to 1000 Volts



	DIMENSIONS					
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.079	0.103	2.00	2.62		
В	0.075	0.087	1.91	2.21		
С	0.002	0.008	0.05	0.20		
D	0.006	0.012	0.15	0.31		
E	0.030	0.060	0.76	1.52		
F	0.065	0.091	1.65	2.32		
G	0.200	0.220	5.08	5.59		
Н	0.160	0.191	4.06	4.85		
J	0.130	0.155	3.30	3.94		

Suggested Solder Pad Layout



^{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.



Curve Characteristics

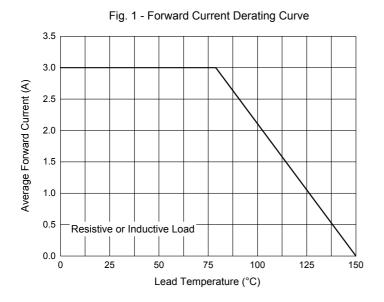


Fig. 3 - Typical Instantaneous Forward Characteristics

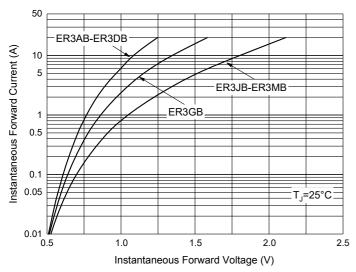


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

120

80

90

40

40

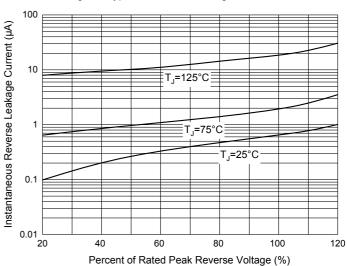
20

8.3 ms Single Half Sine-Wave

0

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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