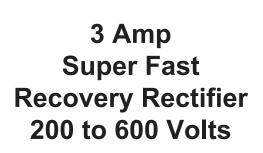


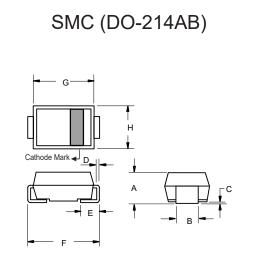
Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- Super Fast Recovery Times for High Effieciency
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

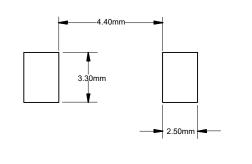
		Value			
Parameter	Symbol	ER3DHE3	ER3GHE3	ER3JHE3	Unit
Peak Repetitive Reverse Voltage	V _{RRM}				
Working Peak Reverse Voltage	V _{RWM}	200	400	600	V
DC Blocking Voltage	V _R				
RMS Reverse Voltage	V_{RMS}	140	280	420	V
Average Rectified Forward Current @ T _L =80°C	I _{F(AV)}	3			А
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave	I _{FSM}	100			A
Current Squared Time @ 1ms≤t≤8.3ms	l ² t	41.5			A²s





	DIMENSIONS					
DIM	INCHES		MM		NOTE	
DIN	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		
E	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		

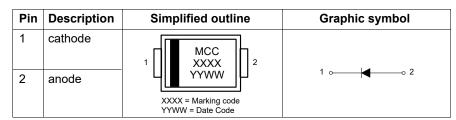
Suggested Solder Pad Layout



Marking code

Part Number	Marking code	
ER3DHE3	ER3D	
ER3GHE3	ER3G	
ER3JHE3	ER3J	

Internal Structure



Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		15		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		65		°C/W

Note:

1.Mounted on P.C.B. with 16mm*16mm copper pad areas.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage ER3DHE3 ER3GHE3 ER3JHE3	V _F	I _F =3A;TJ=25°C			0.95 1.30 1.70	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			5 100	uA
Reverse Recovery Time	t _{rr}	I _F =0.5A; I _R =1.0A; I _{rr} =0.25A;T _J =25°C			35	ns
Junction Capacitance ER3DHE3 ER3GHE3 ER3JHE3	CJ	V _R =4V;f=1MHz;T _J =25°C		60 55 50		pF



Curve Characteristics

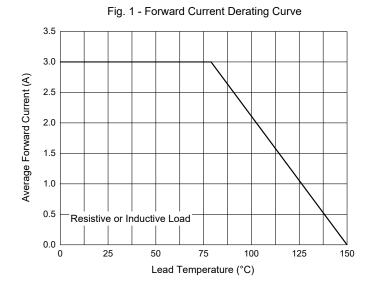


Fig. 3 - Typical Instantaneous Forward Characteristics

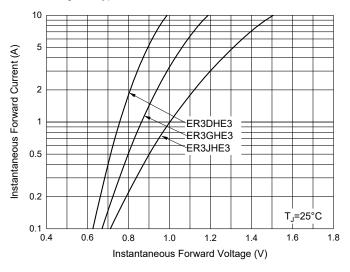
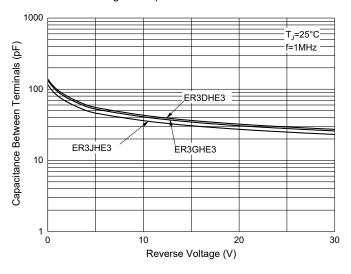


Fig. 5 - Capacitance Characteristics



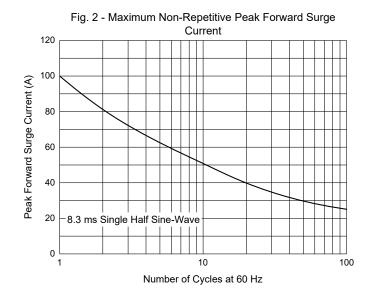
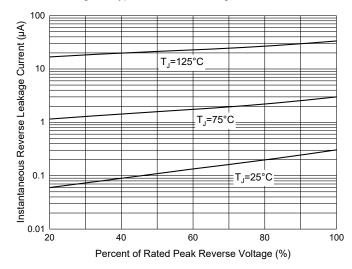


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

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

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