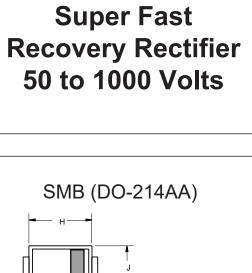


Features

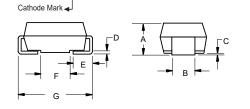
- Halogen Free. "Green" Device (Note 1)
- Super Fast Recovery Times For High Effieciency
- Glass Passivated Chip Junction
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	O h l				Va	lue				Unit	
	Symbol	ER 3AB	ER 3BB	ER 3CB	ER 3DB	ER 3GB	ER 3JB	ER 3KB	ER 3MB	Unit	
Peak Repetitive Reverse Voltage	V_{RRM}										
Working Peak Reverse Voltage	V_{RWM}	50	100	150	200	400	600	800	1000	V	
DC Blocking Voltage	V_{R}										
RMS Reverse Voltage	V _{RMS}	35	70	105	140	280	420	560	700	V	
Average Rectified Forward Current @ $T_L=80^{\circ}C$	I _{F(AV)}	3					A				
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					A ² s				



3 Amp

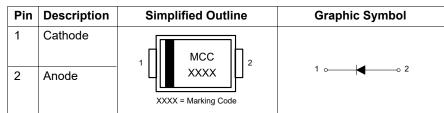


DIMENSIONS						
DIM	INCHES		Μ	IM	NOTE	
Divi	MIN	MAX	MIN	MAX	NOTE	
Α	0.079	0.103	2.00	2.62		
В	0.075	0.087	1.91	2.21		
С	0.002	0.008	0.05	0.20		
D	0.006	0.012	0.15	0.31		
E	0.030	0.060	0.76	1.52		
F	0.065	0.091	1.65	2.32		
G	0.200	0.220	5.08	5.59		
Н	0.160	0.191	4.06	4.85		
J	0.130	0.155	3.30	3.94		

Marking Code

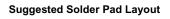
Part Number	Marking Code
ER3AB	ER3AB
ER3BB	ER3BB
ER3CB	ER3CB
ER3DB	ER3DB
ER3GB	ER3GB
ER3JB	ER3JB
ER3KB	ER3KB
ER3MB	ER3MB

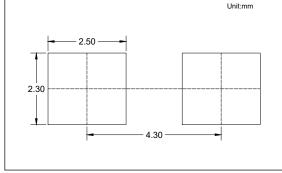
Internal Structure



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		20		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		75		°C/W

Note:

1.Mounted on P.C.B. with 8mm*8mm copper pad areas.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage ER3AB~ER3DB ER3GB ER3JB~ER3MB	V _F	I _F =3A;TJ=25°C			0.95 1.25 1.70	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			5 200	μA
Reverse Recovery Time						
ER3AB~ER3JB ER3KB~ER3MB	t _{rr}	I _F =0.5A; I _R =1.0A; I _{rr} =0.25A;T _J =25°C			35 75	ns
Junction Capacitance						
ER3AB~ER3DB ER3GB ER3JB ER3KB~ER3MB	CJ	V _R =4V;f=1MHz;T _J =25°C		60 35 30 25		pF





Curve Characteristics

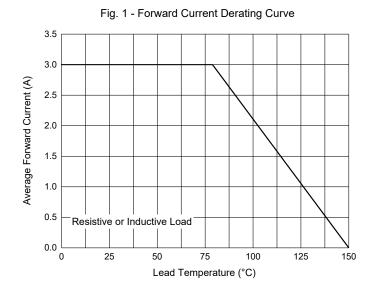


Fig. 3 - Typical Forward Characteristics

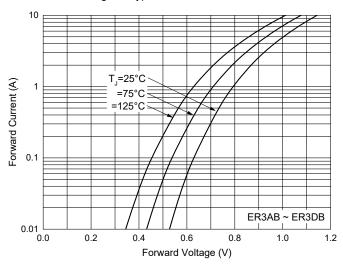
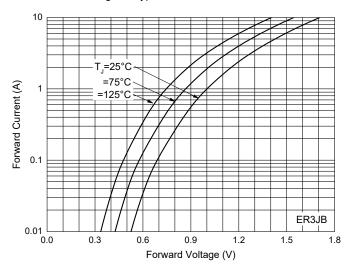


Fig. 5 - Typical Forward Characteristics



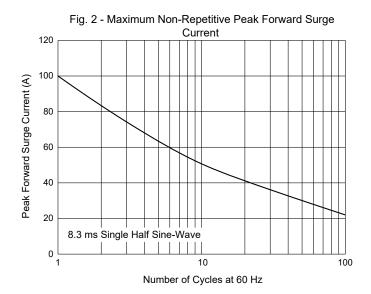


Fig. 4 - Typical Forward Characteristics

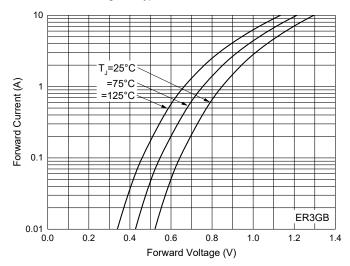
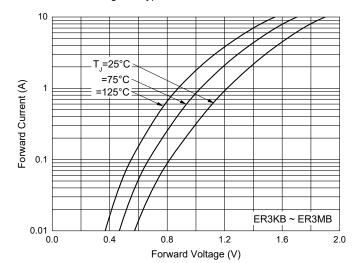


Fig. 6 - Typical Forward Characteristics





Curve Characteristics

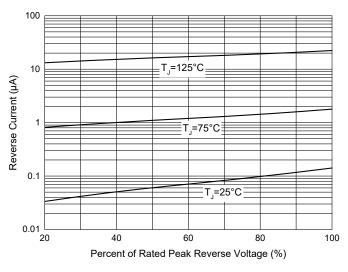
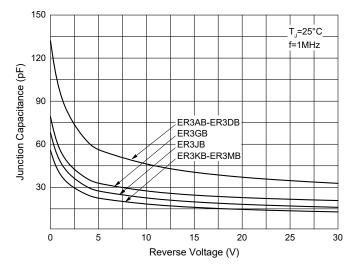


Fig. 7 - Typical Reverse Leakage Characteristics

Fig. 8 - Typical Capacitance Characteristics





Ordering Information

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

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