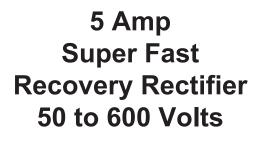


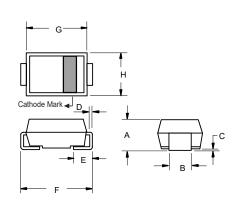
Features

- Halogen Free. "Green" Device (Note 1)
- Glass Passivated Chip Junction
- Super Fast Recovery Times for High Efficiency
- 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 Symbol	Symbol	Value						Unit	
	ER5A	ER5B	ER5C	ER5D	ER5G	ER5J	Unit		
Peak Repetitive Reverse Voltage	V _{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	50	100	150	200	400	600	V
DC Blocking Voltage	V _R								
RMS Reverse Voltage	V _{RMS}	35	70	105	140	280	420	V	
Average Rectified Forward Current @ T_L =75°C	I _{F(AV)}	5					A		
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave	1	175					•		
Non-Repetitive Peak Surge Current @1ms Half Sine Wave	I _{FSM}	280						A	
Current Squared Time @1ms≤t≤8.3ms	l ² t	127					A²s		





SMC (DO-214AB)

DIMENSIONS						
DIM	DIM INCHES		M	М	NOTE	
Divi	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		

ER5G ER5G ER5J ER5J

Marking Code

Part Number

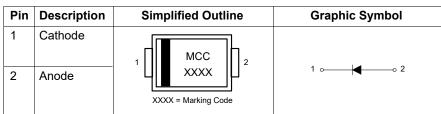
ER5A

ER5B

ER5C

ER5D

Internal Structure



Marking Code

ER5A

ER5B

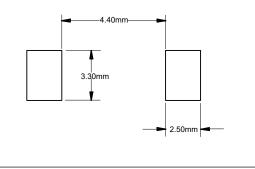
ER5C

ER5D

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.

Suggested Solder Pad Layout





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						
ER5A ~ ER5D	V _F	I _F =5A;T _J =25°C			1.0	
ER5G					1.3	V
ER5J					1.7	
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			5 100	μΑ
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						
ER5A ~ ER5D	CJ	V _R =4V;f=1MHz;T _J =25°C		75		
ER5G	_			37		pF
ER5J				28		





Curve Characteristics



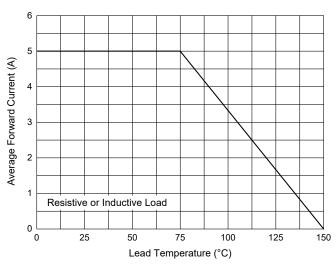


Fig. 3 - Typical Forward Characteristics

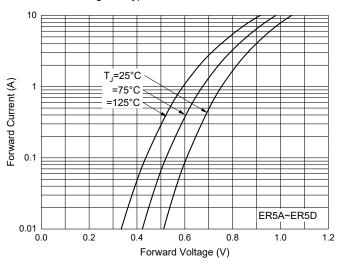
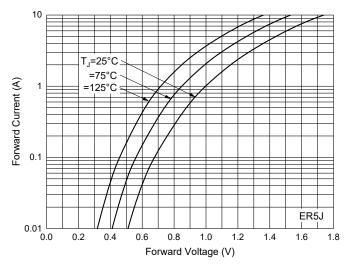


Fig. 5 - Typical Forward Characteristics



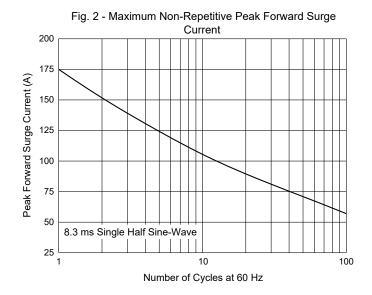


Fig. 4 - Typical Forward Characteristics

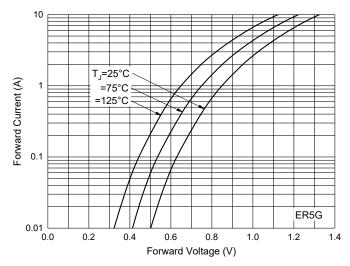
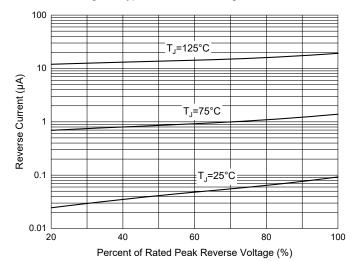
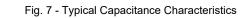


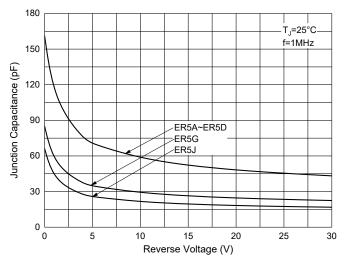
Fig. 6 - Typical Reverse Leakage Characteristics





Curve Characteristics







Ordering Information

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

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