

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)

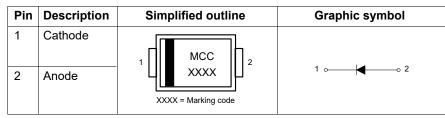
Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol		Value				
Farameter	Parameter Symbol	ER2A-L	ER2B-L	ER2D-L	ER2G-L	ER2J-L	Unit
Peak Repetitive Reverse Voltage	V_{RRM}						
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	V
DC Blocking Voltage	V_{R}						
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	V
Average Rectified Forward Current @ T _L =110°C	I _{F(AV)}	2					A
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave		50				А	
Non-Repetitive Peak Surge Current @1ms Half Sine Wave	I _{FSM}		100				
Current Squared Time @1ms≤t≤8.3ms	l ² t	10.375				A ² s	

Marking code

Part Number	Marking code
ER2A-L	ER2A
ER2B-L	ER2B
ER2D-L	ER2D
ER2G-L	ER2G
ER2J-L	ER2J

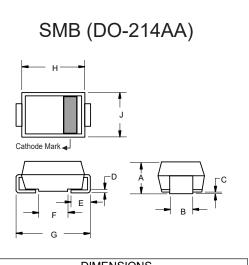
Internal Structure



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

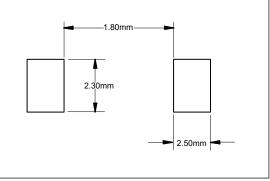
2. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

2 Amp Super Fast Recovery Rectifier 50 to 600 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





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-65		175	°C
T _{stg}	Storage Temperature Range		-65		175	°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.

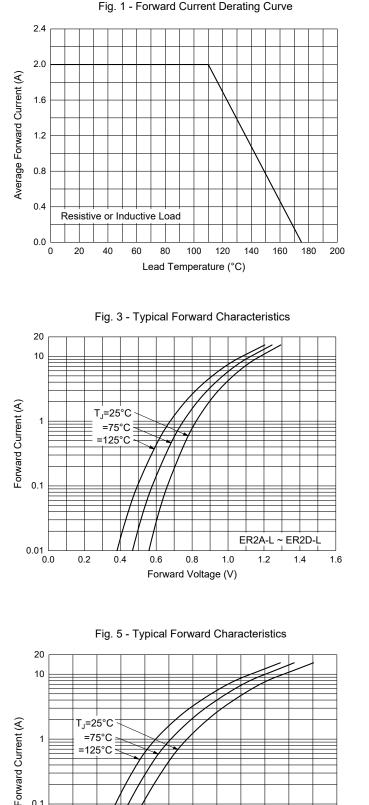
Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage						
ER2A-L ~ ER2D-L	V _F	I _F =2A;T _J =25°C			0.95	
ER2G-L					1.25	V
ER2J-L					1.70	
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						
ER2A-L ~ ER2D-L	CJ	V _R =4V;f=1MHz;T _J =25°C		30		
ER2G-L				18		pF
ER2J-L				12		





Curve Characteristics





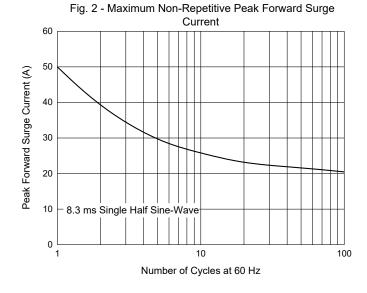


Fig. 4 - Typical Forward Characteristics

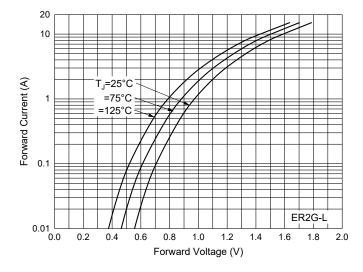
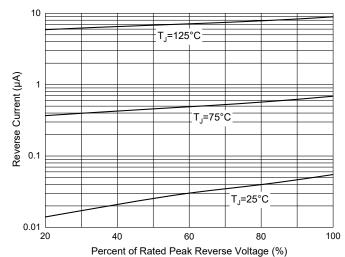
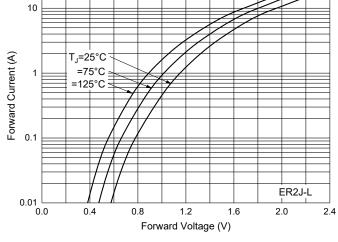


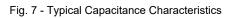
Fig. 6 - Typical Reverse Leakage Characteristics

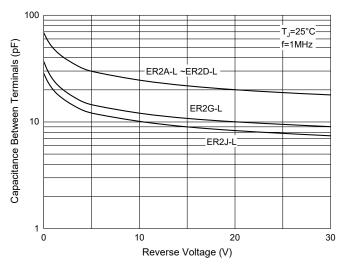






Curve Characteristics







Ordering Information

Device	Packing		
ER2A-LTP ~ ER2J-LTP	Tape&Reel:3Kpcs/Reel		

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