

Features

- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Glass Passivated Chip Junction
- Low Profile Package
- For Surface Mount Applications
- Super Fast Reverse Recovery Time
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 2)

Maximum Ratings

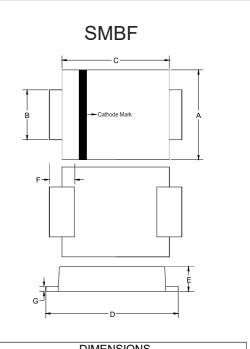
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance(Note 3): 15°C/W Junction to Case
- Typical Thermal Resistance(Note 3): 20°C/W Junction to Lead
- Typical Thermal Resistance(Note 3): 60°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
ER3DBFL	ER3D	200V	140V	200V
ER3GBFL	ER3G	400V	280V	400V
ER3JBFL	ER3J	600V	420V	600V
ER3KBFL	ER3K	800V	560V	800V

Electrical Characteristics @ 25°C Unless Otherwise Specified

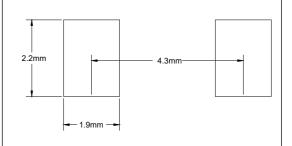
Average Forward Current	I _{F(AV)}	3.0A	T _L =55⁰C	
Peak Forward Surge Current	I _{FSM}	100A	8.3ms,Half Sine	
Maximum Instantaneous Forward Voltage ER3DBFL ER3GBFL ER3JBFL ER3KBFL	V _F	0.95V 1.3V 1.7V 1.85V	I _F =3.0A; T _J =25⁰C	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 100μA	T _J =25⁰C T _J =125⁰C	
Maximum Reverse Recovery Time	t _{rr}	35ns	I _F =0.5A; I _R =1.0A; Irr=0.25A	
Typical Junction Capacitance ER3DBFL ER3GBFL ER3JBFL ER3KBFL	CJ	60pF 35pF 29pF 21pF	Measured at 1.0MHz V _R =4.0V	

3.0 Amp Super Fast Recovery Rectifier 200 to 800 Volts



DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.134	0.150	3.40	3.80		
В	0.075	0.083	1.90	2.10		
С	0.163	0.175	4.15	4.45		
D	0.201	0.220	5.10	5.60		
E	0.041	0.061	1.05	1.55		
F	0.028	0.053	0.70	1.35		
G	0.006	0.010	0.15	0.25		

Suggested Solder Pad Layout



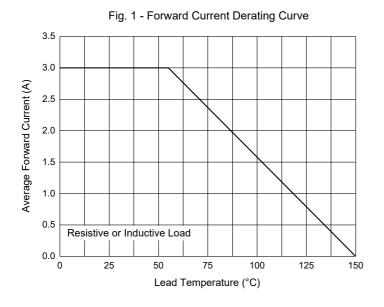
Note:

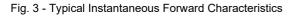
1.Halogen free "Green"products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

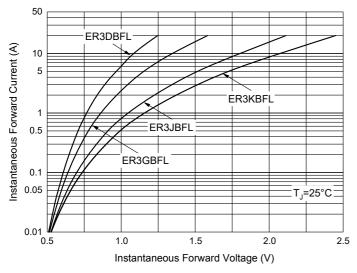
2.High Temperature Solder Exemptions Applied, See EU Directive Annex 7a. 3.Mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas.

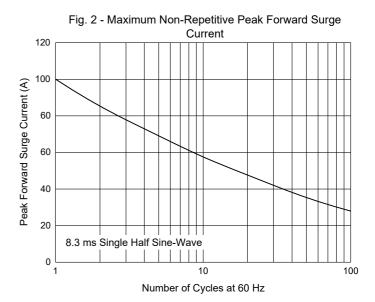


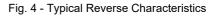
Curve Characteristics

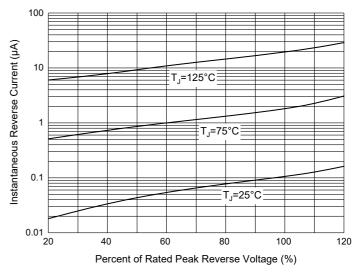














Device	Packing	
ER3DBFL-TP ~ ER3KBFL-TP	Tape&Reel: 5Kpcs/Reel	

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