

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
- High Forward Surge Capability
- 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

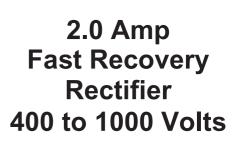
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FR2GBFL	FR2G	400V	280V	400V
FR2JBFL	FR2J	600V	420V	600V
FR2MBFL	FR2M	1000V	700V	1000V

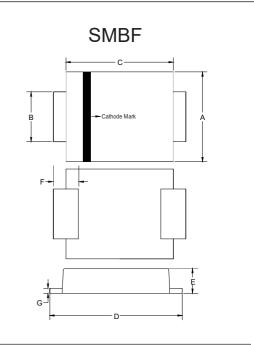
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	2.0A	T _L =100⁰C
Peak Forward Surge Current	I _{FSM}	50A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	1.30V	I _F =2.0A; T _J =25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μΑ 100μΑ	T _J =25⁰C T _J =125⁰C
Maximum Reverse Recovery Time FR2GBFL FR2JBFL FR2MBFL	t _{rr}	150ns 250ns 500ns	I _F =0.5A; I _R =1.0A; Irr=0.25A
Typical Junction Capacitance FR2GBFL FR2JBFL~FR2MBFL	CJ	18pF 11pF	Measured at 1.0MHz V _R =4.0V

Note:

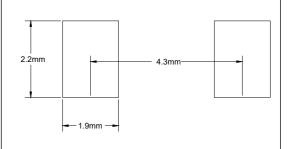
Halogen free "Green"products are defined as those which contain <900ppm bromine,
<900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.
Mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas.





DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	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	
Е	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





Curve Characteristics

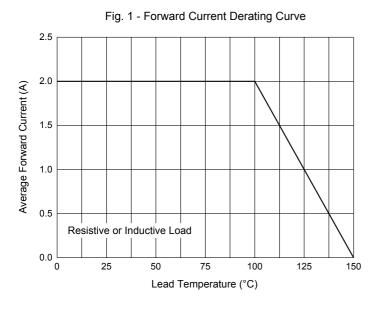
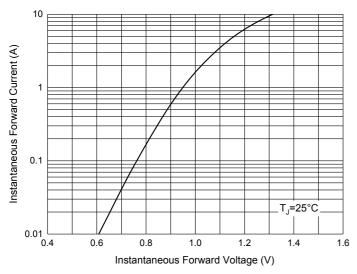
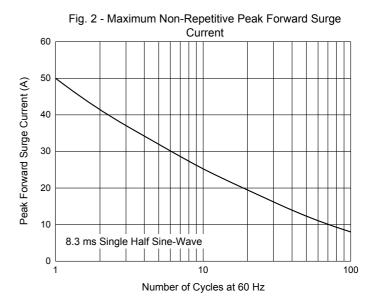
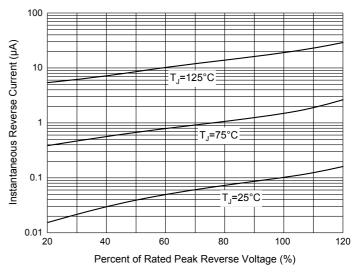


Fig. 3 - Typical Instantaneous Forward Characteristics











Device	Packing	
FR2GBFL-TP ~ FR2MBFL-TP	Tape&Reel: 5Kpcs/Reel	

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