



SMALL SURFACE MOUNT FAST DIODES

Voltage

800~1000 V

Current

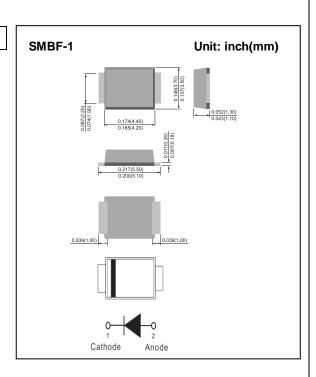
3 A

Features

- For surface mounted applications in order to optimize board space
- Ultra thin profile package for space constrained utilization
- Easy pick and place package suitable for automated handling
- Package suitable for automated handling
- Ideal for automated placement
- Glass passivated chip junction
- High temperature soldering : 260°C / 10 seconds at terminals
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std..(Halogen Free)

Mechanical Data

- Case: Molded plastic, SMBF-1
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color Band denotes cathode end
- Approx. Weight: 0.0018 ounces, 0.05 grams



Maximum Ratings (T_A=25°C unless otherwise noted)

PARAMETER		SYMBOL	FRB3KF-LE	FRB3MF-LE	UNIT	
Marking			LFB3KF	LFB3MF		
Maximum repetitive peak reverse voltage		Vrrm	800	1000	V	
Maximum rms voltage		VRMS	560	700	V	
Maximum dc blocking voltage		VR	800	1000	V	
Maximum average forward current		lf(AV)	3		Α	
Peak forward surge current: 8.3ms single half sine- wave superimposed on rated load		IFSM	100		Α	
Maximum forward voltage at 3A		VF	1.3		V	
Maximum dc reverse current at rated dc blocking voltage		lr	5		μΑ	
Typical junction capacitance Measured at 1MHz and applied V _R =4V		CJ	30		pF	
Maximum reverse recovery time (Note 1)		T _{RR}	500		ns	
Typical Thermal Resistance	(Note 2)	$R_{\theta JA}$	13	35	°C/W	
	(Note 3)	$R_{ heta JC}$	1	5		
Operating and storage temperature range		ТJ, Tsтg	-55 to	+150	°C	

Note:1.Reverse Recovery Test Conditions: IF=0.5A, IR=-1A, IRR=-0.25A

- 2. Mounted on a FR4 PCB, single-sided copper, mini pad.
- 3. Mounted on a FR4 PCB, single-sided copper, with 100cm2 copper pad area





TYPICAL CHARACTERISTIC CURVES

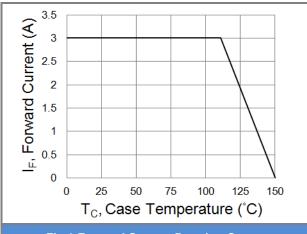


Fig.1 Forward Current Derating Curve

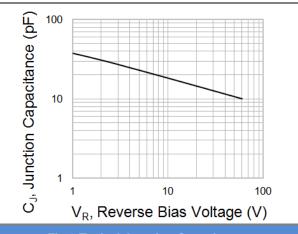


Fig.2 Typical Junction Capacitance

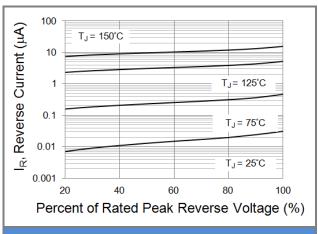
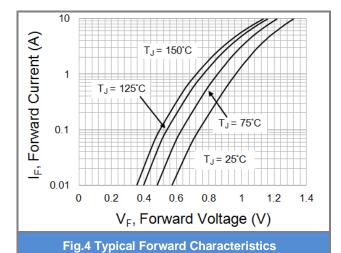


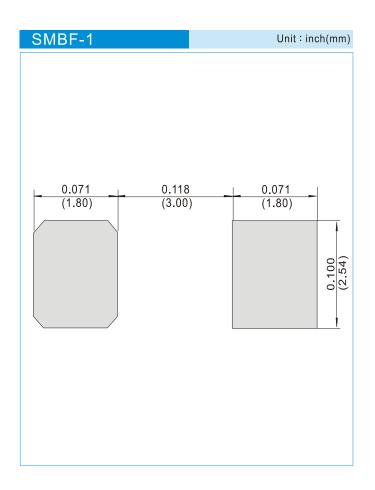
Fig.3 Typical Reverse Characteristics







Mounting Pad Layout







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