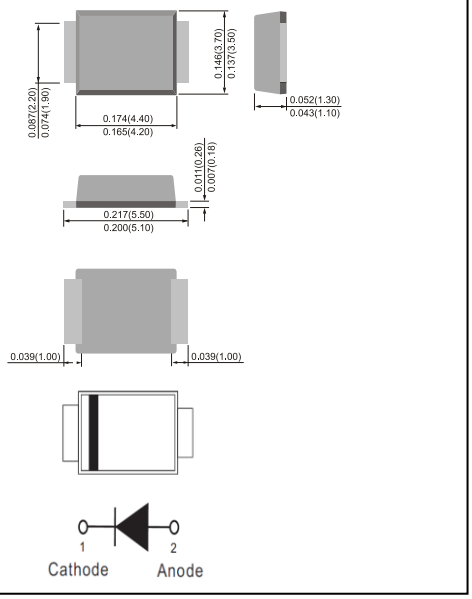
FRB3KF-LE~FRB3MF-LE

SMALL SURFACE MOUNT FAST DIODES

Voltage 800~1000 V **Current** 3 A

SMBF-1 Unit: inch(mm)



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		V_{RRM}	800	1000	V
Maximum rms voltage		V_{RMS}	560	700	V
Maximum dc blocking voltage		V_R	800	1000	V
Maximum average forward current		$I_{F(AV)}$	3		A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I_{FSM}	100		A
Maximum forward voltage at 3A		V_F	1.3		V
Maximum dc reverse current at rated dc blocking voltage		I_R	5		μA
Typical junction capacitance Measured at 1MHz and applied V_R=4V		C_J	30		pF
Maximum reverse recovery time (Note 1)		T_{RR}	500		ns
Typical Thermal Resistance	(Note 2)	$R_{\theta JA}$	135		°C/W
	(Note 3)	$R_{\theta JC}$	15		
Operating and storage temperature range		T_J, T_{STG}	-55 to +150		°C

Note:1.Reverse Recovery Test Conditions : I_F=0.5A, I_R=-1A, I_{RR}=-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

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TYPICAL CHARACTERISTIC CURVES

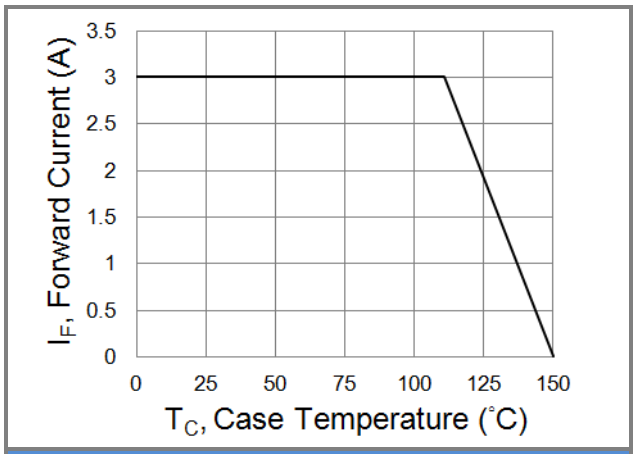

Fig.1 Forward Current Derating Curve

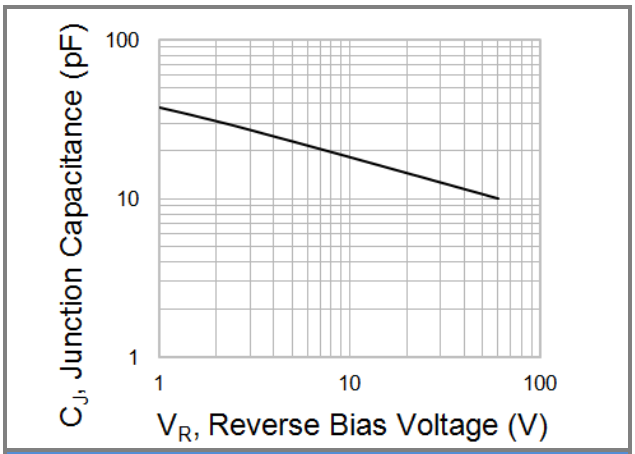

Fig.2 Typical Junction Capacitance

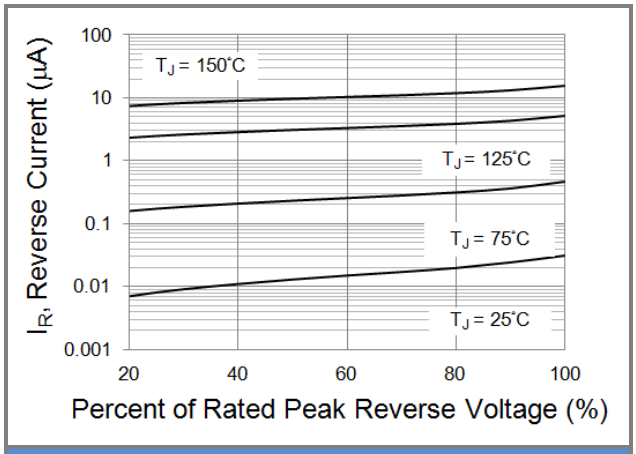

Fig.3 Typical Reverse Characteristics

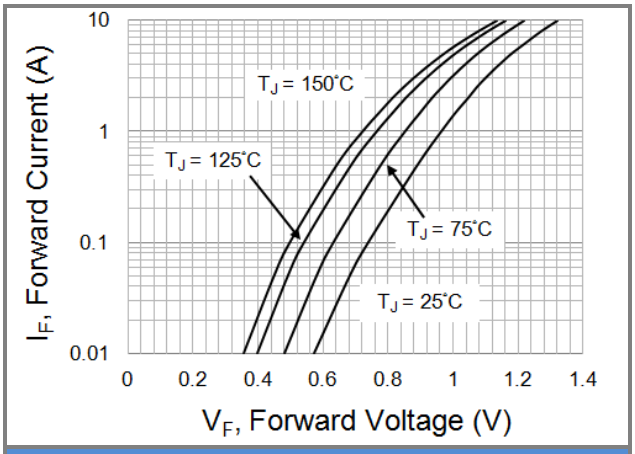

Fig.4 Typical Forward Characteristics

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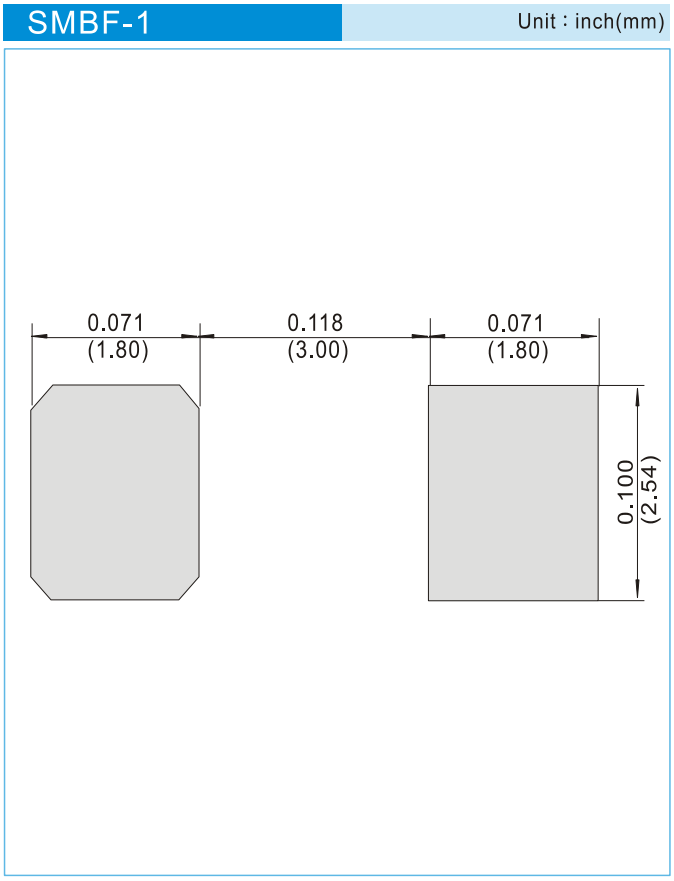
Mounting Pad Layout



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