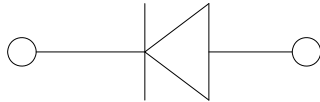
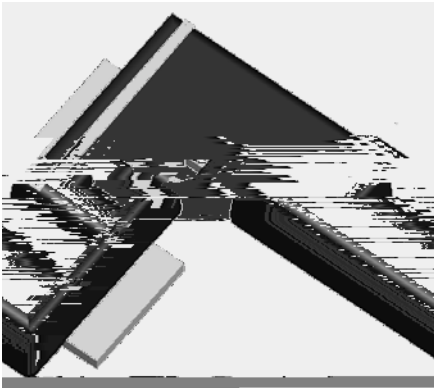


Surface Mount General Purpose Rectifier



Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

For use in general purpose rectification of power supplies, inverters, converters, and freewheeling diodes for consumer, and telecommunication.

Mechanical Data

- **Package:** SMBF
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

■Maximum Ratings (Ta=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GS3ABF	GS3BBF	GS3DBF	GS3GBF	GS3JBF	GS3KBF	GS3MBF
Device marking code			GS3ABF	GS3BBF	GS3DBF	GS3GBF	GS3JBF	GS3KBF	GS3MBF
Maximum Repetitive peak reverse voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	V_{RMS}	V	35	70	140	280	420	560	700
Maximum DC Blocking Voltage	V_{DC}	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, resistance load, TL (Fig.1)	I_O	A	3.0						

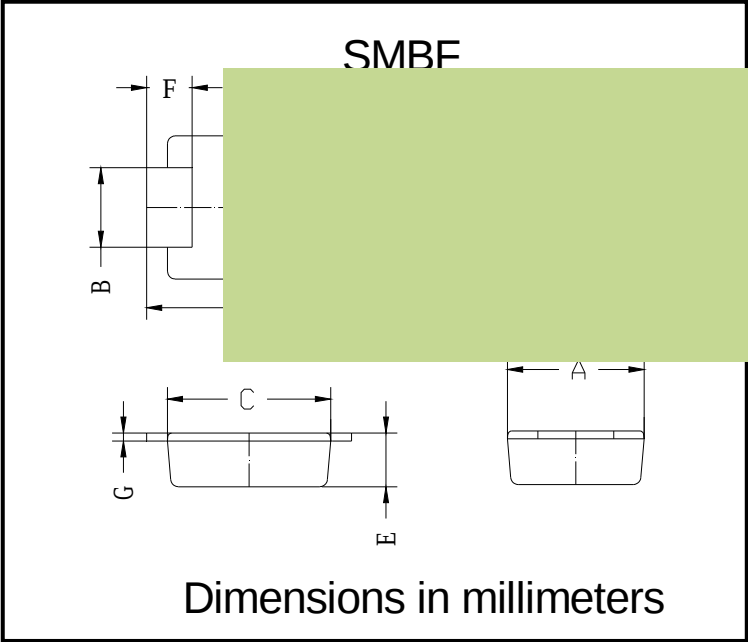
Forward Surge Current (Non-repetitive)
@60Hz Half-sine wave, 1 cycle, Tj=25

	I_{FSM}	A	2	0
		@1ms, square wave, 1 cycle, Tj=25		
Current squared time @1ms≤t≤8.3ms Tj=25 Rating of per diode	I^2t	A ² s	41.5	
Typical junction capacitance @Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	Cj	pF	25	
Storage temperature	Tstg		-55 ~ +150	
Junction temperature	Tj		-55 ~ +150	



■Ordering Information (Example)

PREFERED P/N	PACKING CODE	U * p P D hR (A (	1	M N
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GS3ABF THRU GS3MBF

■ Suggested pad layout

Dim	Milimeters
P1	6.20
P2	2.40



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