

CURRENT 3 Ampere
VOLTAGE RANG 100~1000 Volts

GLASS PASSIVATED SURFACE MOUNT BRIDGE RECTIFIER RECTIFIERS

FMB30B-FMB30M

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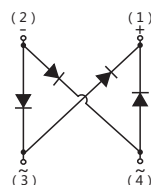
Features:

Glass Passivated Chip Junction
Reverse Voltage - 100 to 1000 V
Forward Current - 3.0 A
Designed for Surface Mount Application
Fast reverse recovery time

FMB-4



PINNING



PIN	DESCRIPTION
1	Output Anode (+)
2	Output Cathode (-)
3	Input Pin (~)
4	Input Pin (~)

Absolute Maximum Ratings (Ta=25°C unless otherwise noted)

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Parameter	Symbols	FMB30B	FMB30D	FMB30G	FMB30J	FMB30K	FMB30M	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	V
Average Rectified Output Current at T _c = 115 °C	I _O	3.0						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	95						A
Maximum Forward Voltage at 4.0 A	V _F	1.3						V
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a =125 °C	I _R	5.0 200						μA
Typical Junction Capacitance (Note1)	C _j	50						pF
Typical Thermal Resistance (Note2)	R _{θJA}	40						°C/W
Maximum Reverse Recovery Time (Note3)	t _{rr}	150			250	500		ns
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150						°C

Note:1. Measured at 1 MHz and applied reverse voltage of 4 V D.C

2. Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

3. Measured with $I_F = 0.5\text{ A}$, $I_R = 1\text{ A}$, $t_{rr} = 0.25\text{ A}$.

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Typical Characteristics

Fig.1 Average Rectified Output Current Derating Curve

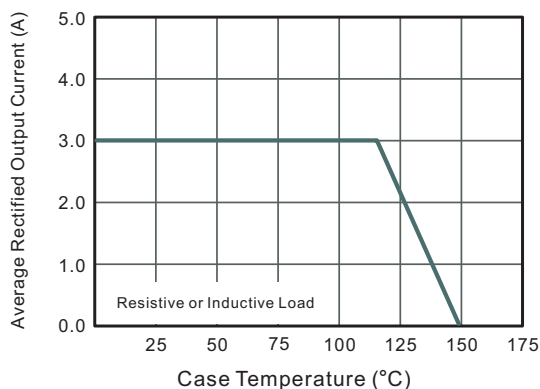


Fig.2 Typical Reverse Characteristics

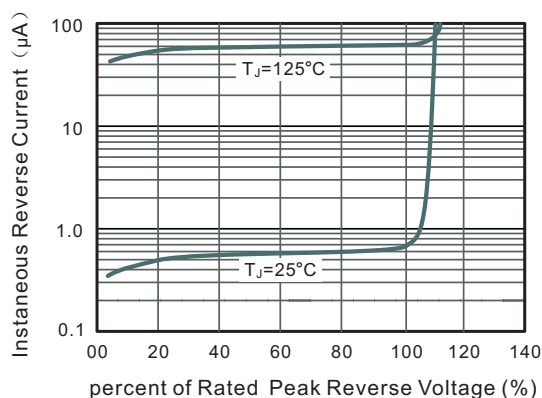


Fig.3 Typical Instaneous Forward Characteristics

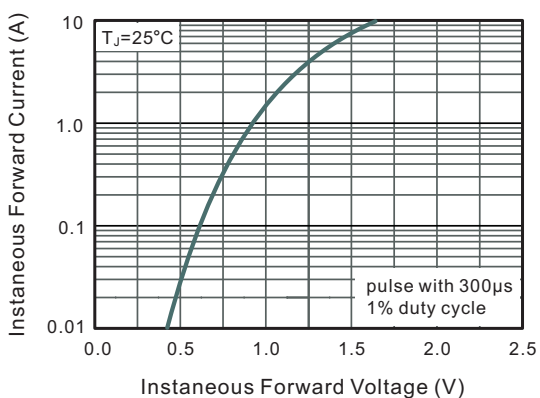


Fig.4 Typical Junction Capacitance

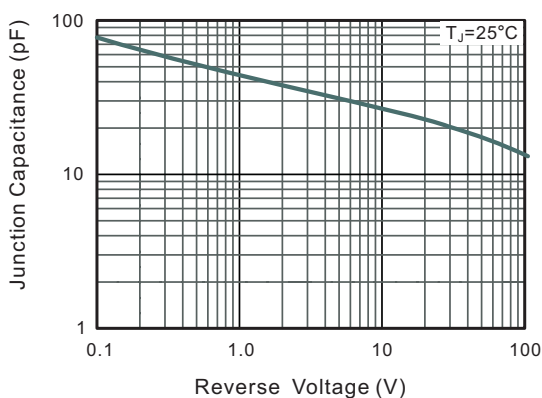
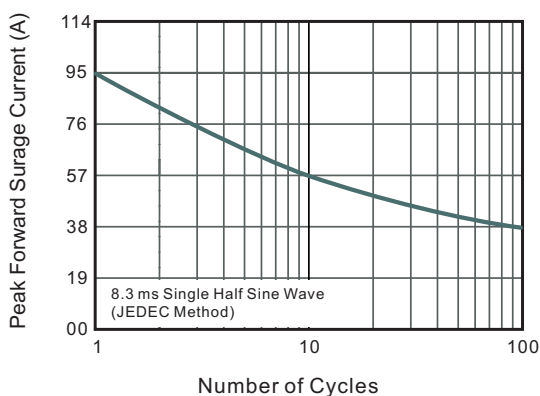


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

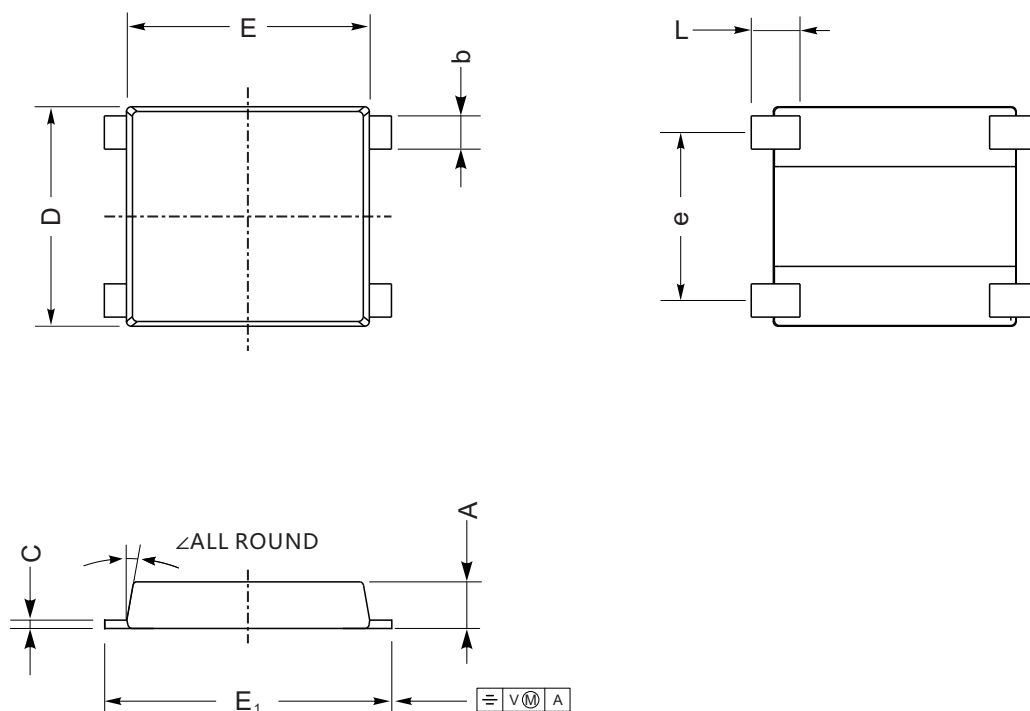


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FMB mechanical data

UNIT		A	C	D	E	E ₁	L	e	b	$\angle$
mm	max	1.5	0.29	7.0	7.6	8.9	1.6	5.3	1.15	10°
	min	1.3	0.17	6.2	7.1	8.4	1.0	4.9	0.95	
mil	max	59	12	276	299	350	55	209	45	
	min	51	7	244	280	331	31.5	193	37	