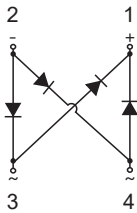


Surface Mount Glass Passivated Bridge Rectifiers

Features

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

Block Diagram



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

Marking Code:

FMSB40B: FMB40B
FMSB40D: FMB40D
FMSB40G: FMB40G
FMSB40J: FMB40J
FMSB40K: FMB40K
FMSB40M: FMB40M

Maximum Ratings and Electrical Characteristics

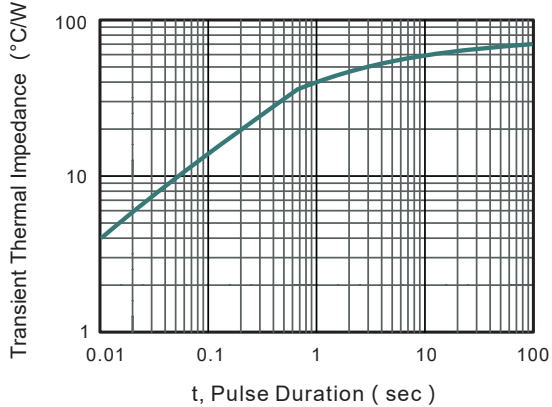
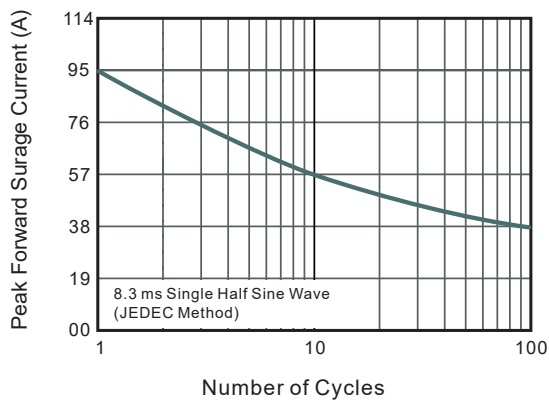
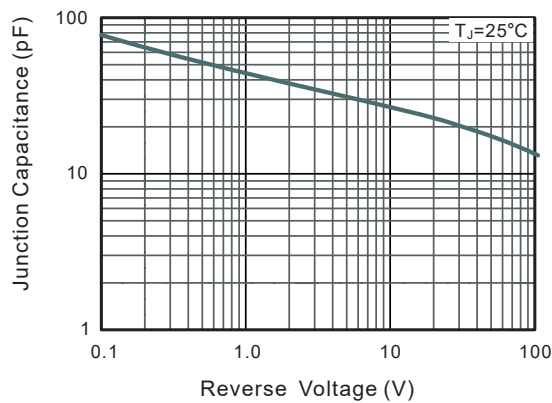
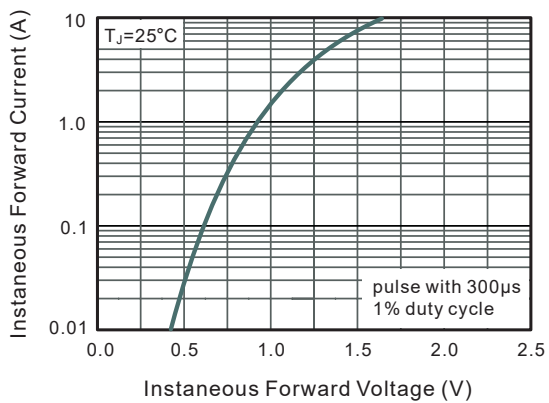
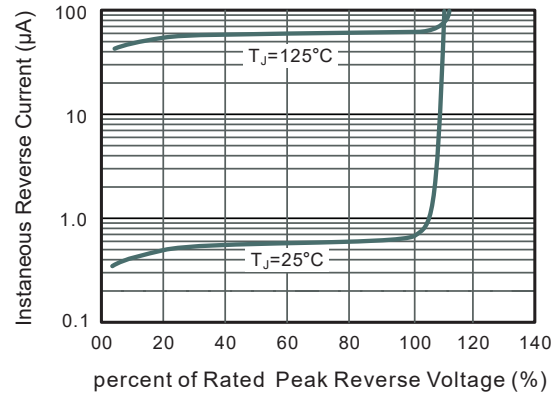
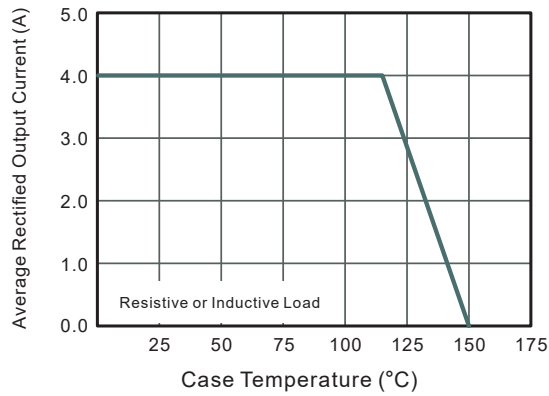
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter		Symbols	FMSB40B	FMSB40D	FMSB40G	FMSB40J	FMSB40K	FMSB40M	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
Maximum Average Rectified Output Current at T _C =115°C		I _O	4.0						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 A		V _F	1.3						V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C	I _R	5						μA
	T _A =125°C		200						
Typical Junction Capacitance ^{Note1}		C _j	50						pF
Typical Thermal Resistance ^{Note2}		R _{θJA}	60						°C/W
		R _{θJC}	15						
		R _{θJL}	25						
Maximum Reverse Recovery Time ^{Note3}		t _{rr}	150			250	500		nS
Junction Temperature		T _J	150						°C
Storage Temperature Range		T _{STG}	-55 to +150						°C

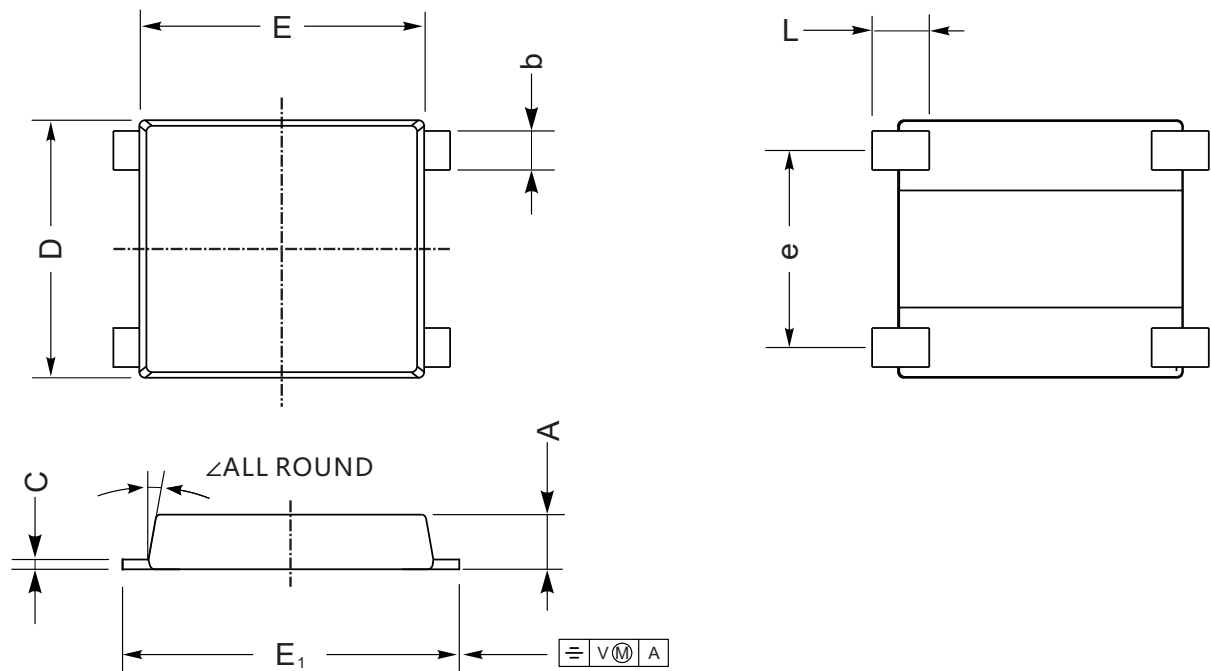
Note:

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

Typical Characteristic Curves



Package Outline (UMSB Dimensions in mm)




UNIT		A	C	D	E	E ₁	L	e	b	∠
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	

Contact Information

TANI website: <http://www.tanisemi.com> Email:tani@tanisemi.com

For additional information, please contact your local Sales Representative.

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The product specification aims to provide users with a reference regarding various product parameters, performance, and usage. It presents certain aspects of the product's performance in graphical form and is intended solely for users to select product and make product comparisons, enabling users to better understand and evaluate the characteristics and advantages of the product. It does not constitute any commitment, warranty, or guarantee.

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