



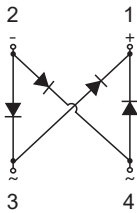
FMSB40B~FMSB40M

Surface Mount Glass Passivated Bridge Rectifiers

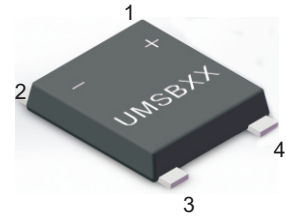
Features

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

Block Diagram



UMSB



- 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 $T_C = 115^\circ\text{C}$	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	$T_A = 25^\circ\text{C}$	5						μA
	$T_A = 125^\circ\text{C}$	200						
Typical Junction Capacitance ^{Note1}	C_j	50						pF
Typical Thermal Resistance ^{Note2}	$R_{\theta JA}$	60						$^\circ\text{C/W}$
	$R_{\theta JC}$	15						
	$R_{\theta JL}$	25						
Maximum Reverse Recovery Time ^{Note3}	t_{rr}	150			250	500		nS
Junction Temperature	T_J	150						$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150						$^\circ\text{C}$

Note:

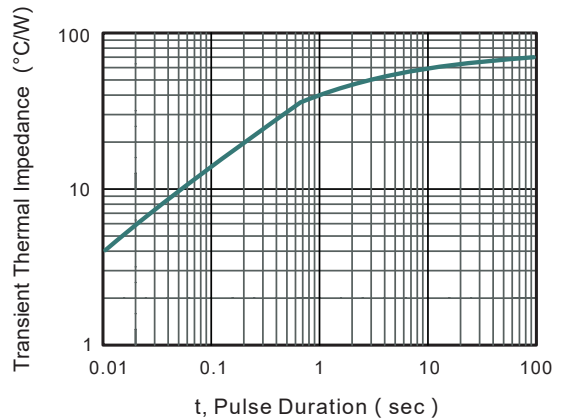
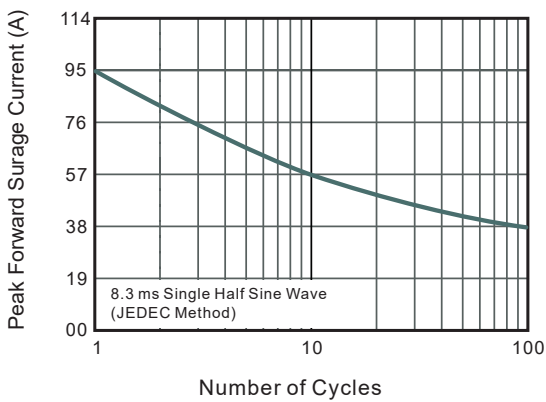
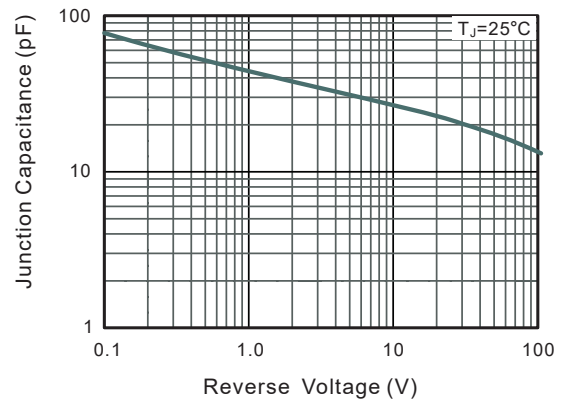
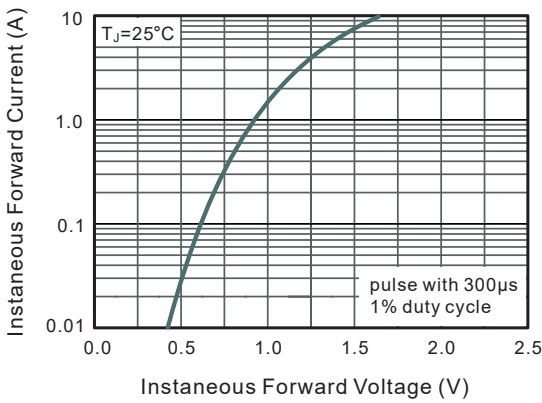
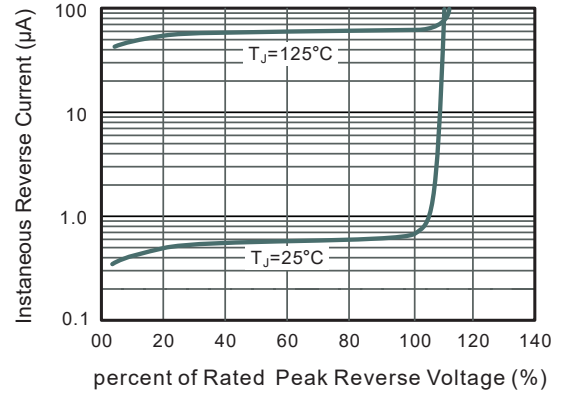
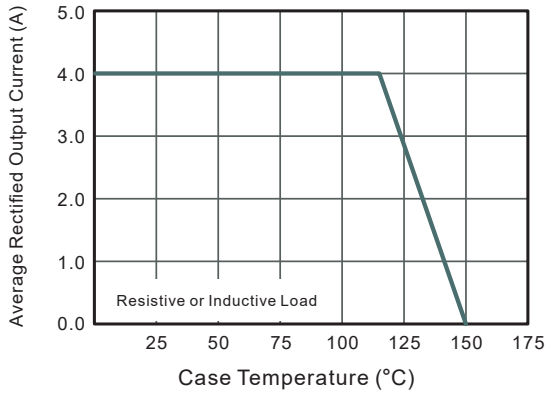
1. Measured at 1 MHz and applied reverse voltage of 4 V D.C
2. Mounted on glass epoxy PC board with $4 \times 1.5'' \times 1.5''$ (3.81×3.81 cm) copper pad.
3. Measured with $I_F = 0.5 \text{ A}$, $I_R = 1 \text{ A}$, $I_{rr} = 0.25 \text{ A}$.



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Typical Characteristic Curves





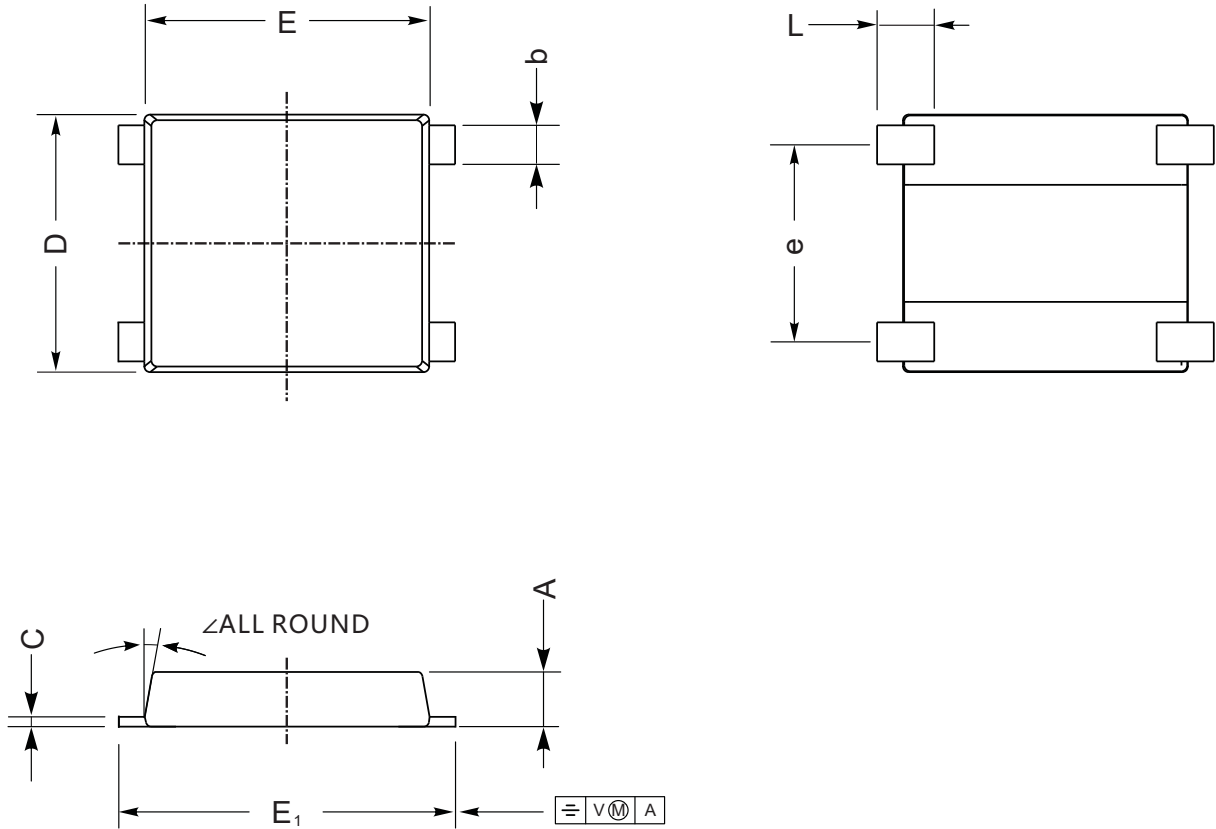
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Surface Mount Glass Passivated Bridge Rectifiers

Package Outline

UMSB

Dimensions in mm



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	