

## FMSB20B THRU FMSB20M UMSB

2.0A SURFACE MOUNT GLASS PASSIVATED BRIDGE

RECTIFIER Reverse Voltage - 100 to 1000 V

Forward Current – 2.0A

### **FEATURES**

Fast reverse recovery time
Designed for Surface Mount Application
Glass Passivated Chip Junction

Low power loss, high efficiency

Lead free in comply with EU RoHS 2011/65/EU directives

#### MECHANICAL DATA

Case: UMSB
Terminals: Solderable per MIL-STD-750, Method 2026
Approx. Weight: 0.234g /0.00824oz

## Maximum Ratings and Electrical characteristics

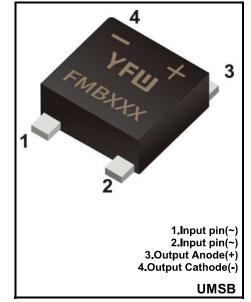
Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

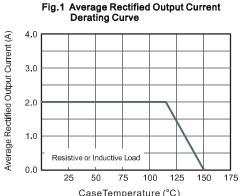
Parameter	Symbols	FMSB20B	FMSB20D	FMSB20G	FMSB20J	FMSB20K	FMSB20M	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	v
Maximum RMS voltage	V <sub>RMS</sub>	70	140	280	420	560	700	v
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	200	400	600	800	1000	v
Average Rectified Output Current at $T_c$ = 115 °C	I <sub>o</sub>	2.0					А	
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC method)	I <sub>FSM</sub>	50				А		
Forward Voltage per element at 2.0A	VF	1.1				v		
Maximum DC Reverse Current $@T_A=25^{\circ}C$ at Rated DC Blocking Voltage $@T_A=125^{\circ}C$	I <sub>R</sub>	5.0 200					μA	
Typical Junction Capacitance (Note1)	Cj	30			pF			
Maximum Reverse Recovery Time (Note2)	T <sub>RR</sub>		150		250	5	00	nS
Typical Thermal Resistance (Note3)	R®JA R®JA R®JA	60 15 25					°C/W	
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150				°C		

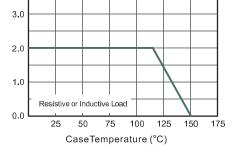
(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

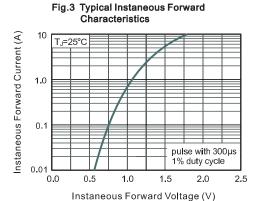
(2) Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.











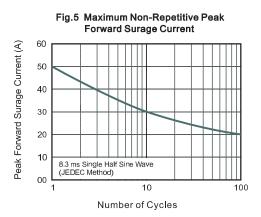


Fig.2 Typical Reverse Characteristics

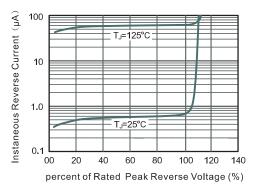
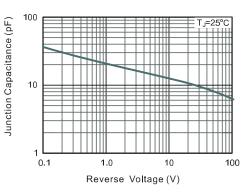
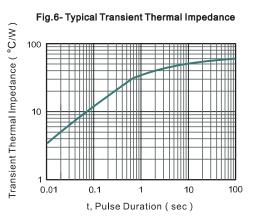


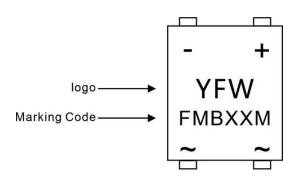
Fig.4 Typical Junction Capacitance







## **Marking Diagram**

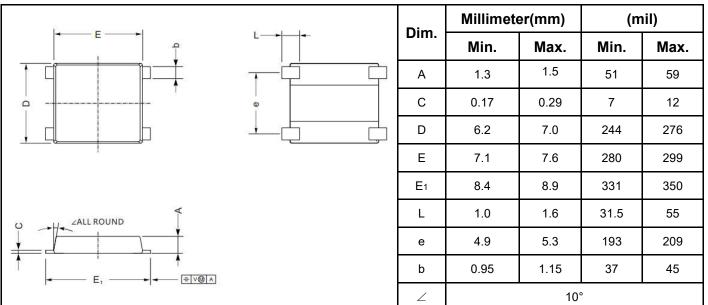


## **Ordering information**

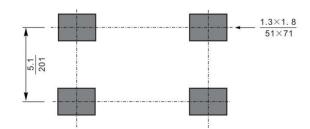
Package	Packing Description	Packing Quantity			
UMSB	Tape/Reel,13"reel	3000PCS/Reel 30000PCS/Carton			

## **Package Dimensions**

#### UMSB



### The recommended mounting pad size



Unit: mm (mil)



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