MSKSEMI 美森科













ESD

TVS

TSS

MOV

GDT

PLED

MSB20B THRU MSB20M

Product specification





MSB20B THRU MSB20M

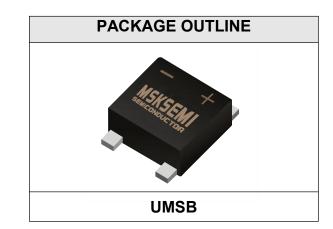
VOLTAGE RANGE 1000 Volts CURRENT 2.0 Ampere

Features

- Glass Passivated Chip Junction
- Reverse Voltage 100 to 1000 V
- Forward Current 2.0 A
- High Surge Current Capability
- Designed for Surface Mount Application

MECHANICAL DATA

- Case: UMSB
- Terminals: Solderable per MIL-STD-750, Method 2026



Maximum Ratings and Electrical characteristics

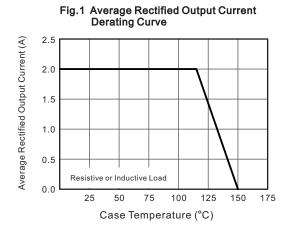
Ratings at $25\,^\circ$ C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	MSB20B	MSB20D	MSB20G	MSB20J	MSB20K	MSB20M	Units
Maximum Repetitive Peak Reverse Voltage	Vrrm	100	200	400	600	800	1000	V
Maximum RMS voltage	V rms	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	100	200	400	600	800	1000	V
Average Rectified Output Current	lo	2.0					А	
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	Ігѕм	50					A	
Maximum Forward Voltage at 2.0 A	VF	1.1					V	
Maximum DC Reverse Current @TA=25°C at Rated DC Blocking Voltage @TA=125°C	I _R	5 100					μA	
Typical Junction Capacitance (Note1)	Cj	30				рF		
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150				°C		

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

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





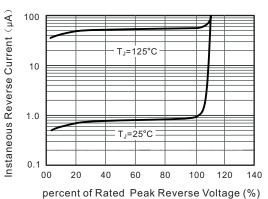
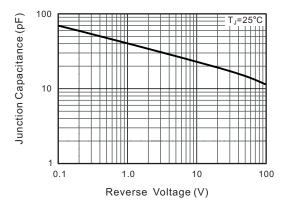


Fig.2 Typical Reverse Characteristics

Fig.4 Typical Junction Capacitance



Characteristics Instaneous Forward Current (A) 10 TJ=25°C 1.0 0.1 pulse with 300µs 1% duty cycle

1.0

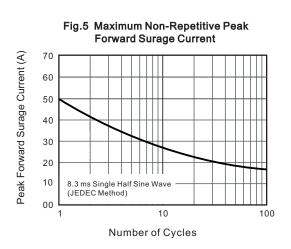
Instaneous Forward Voltage (V)

1.5

2.0

0.5

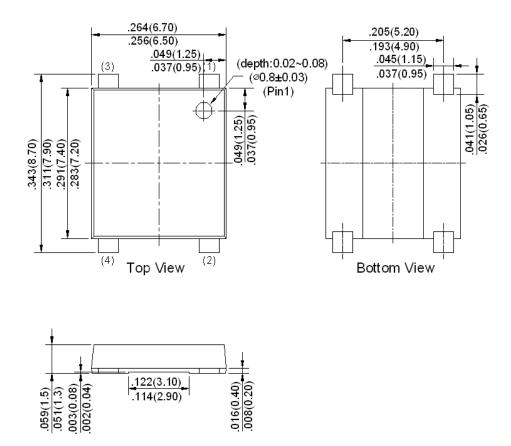
Fig.3 Typical Instaneous Forward



0.01 0.0

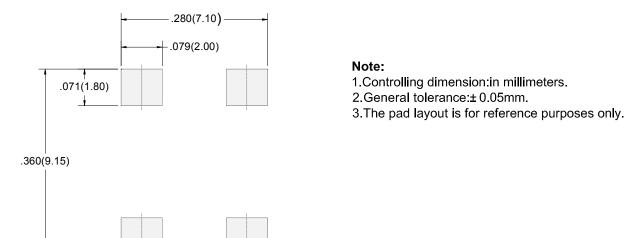


UMSB Package Outline Dimensions



Dimensions in inches and (millimeters)

UMSB Suggested Pad Layout



REEL SPECIFICATION

P/N	PKG	QTY
MSB20B THRU MSB20M	UMSB	3000



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