



MSB40B THRU MSB40M

30A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

3A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

FEATURES:

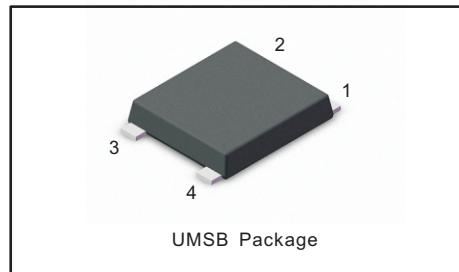
- Glass Passivated Chip Junction
- Reverse Voltage - 100 to 1000 V
- Forward Current - 4.0 A
- High Surge Current Capability
- Designed for Surface Mount Application

PINNING

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

MECHANICAL DATA

- Case: UMSB
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.234g / 0.00825oz



Maximum Ratings and Electrical characteristics

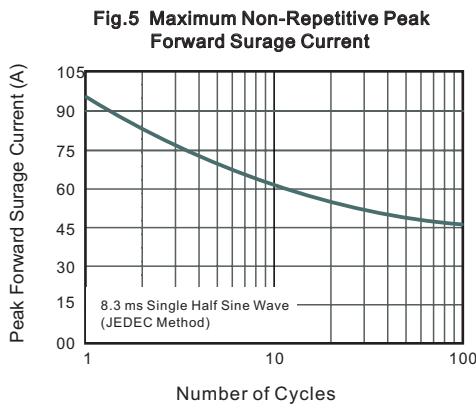
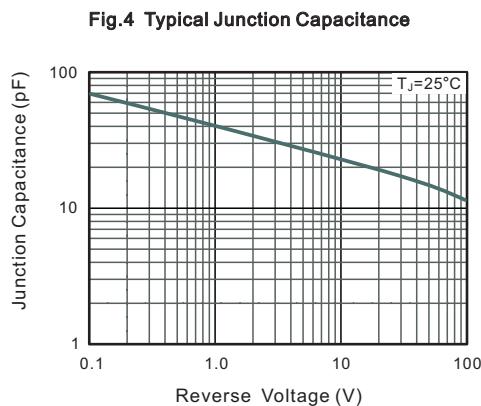
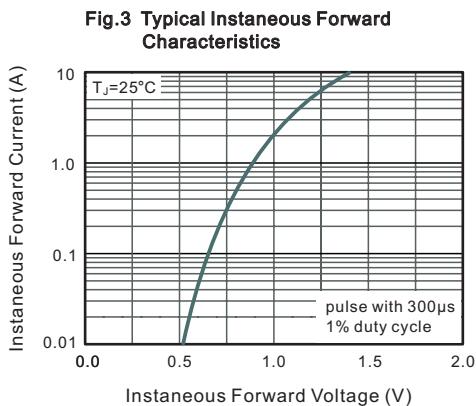
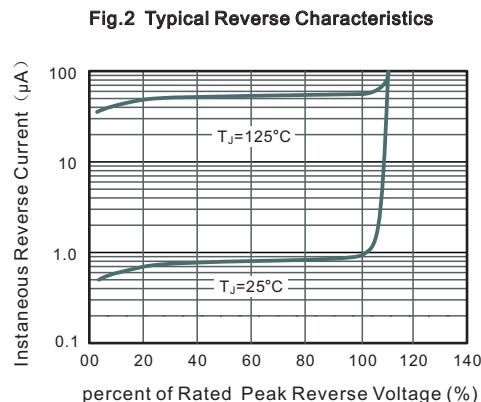
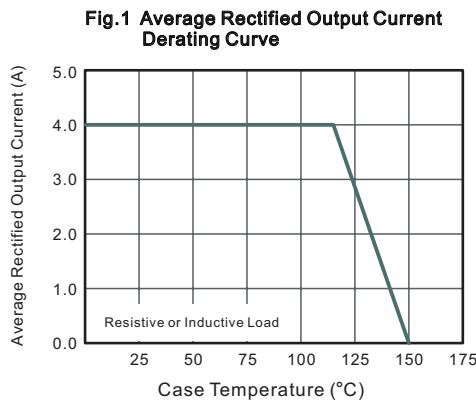
Ratings at 25 °C ambient temperature unless otherwise specified.

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

Parameter	Symbols	MSB40B	MSB40D	MSB40G	MSB40J	MSB40K	MSB40M	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	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 3.0 A	V _F			1.1				V
Maximum DC Reverse Current @T _A =25 °C at Rated DC Blocking Voltage @T _A =125 °C	I _R			5 100				µA
Typical Junction Capacitance (Note1)	C _J			50				pF
Operating and Storage Temperature Range	T _j , T _{stg}			-55 ~ +150				°C

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

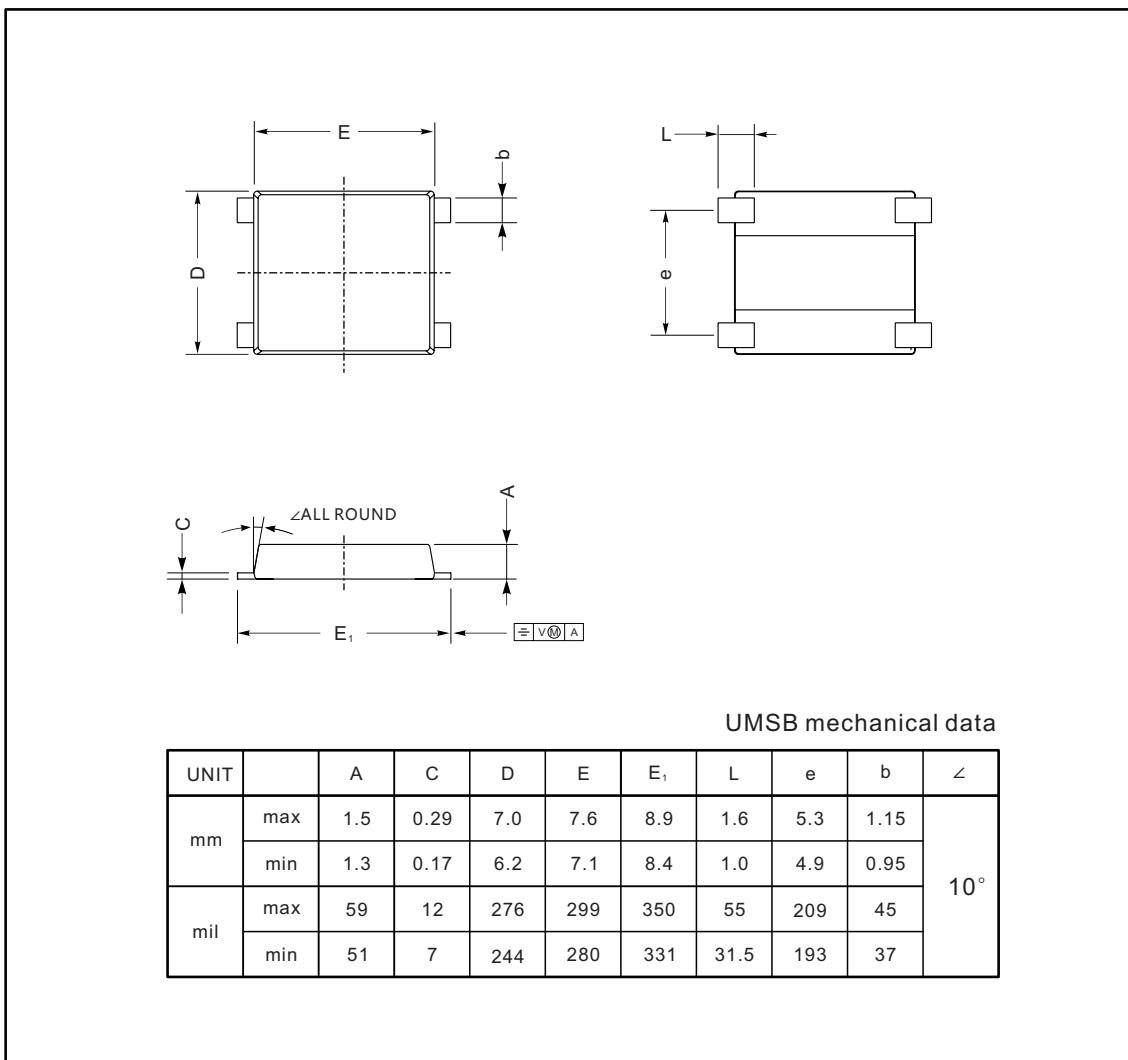
2. Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.



PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

UMSB



Marking

Type number	Marking code
MSB40B	MB40B
MSB40D	MB40D
MSB40G	MB40G
MSB40J	MB40J
MSB40K	MB40K
MSB40M	MB40M