

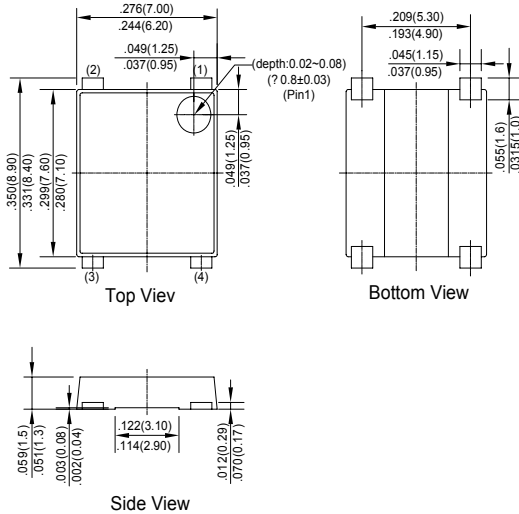


MSB40D THRU MSB40M

GLASS PASSIVATED SURFACE MOUNT BRIDGE RECTIFIER RECTIFIERS

Voltage Range - 200 to 1000 Volts Current - 4.0 Ampere

UMSB



Dimensions in inches and (millimeters)

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

MECHANICAL DATA

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

MDD Catalog Number	SYMBOLS	MSB40D	MSB40G	MSB40J	MSB40K	MSB40M	UNITS
Marking code		MB40D	MB40G	MB40J	MB40K	MB40M	
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	VOLTS
Maximum RMS voltage	V_{RMS}	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	VOLTS
Maximum Average Forward Rectified Current	$I_{F(AV)}$	4.0					Amps
Peak Forward Surge Current @ 8.3ms single half sine-wave	I_{FSM}	95					Amps
Maximum Forward Voltage @ $T_J \leq 25^\circ C$ @ 4.0A	V_F	1.1					Volts
Maximum DC reverse current $T_A = 25^\circ C$ at rated DC blocking voltage $T_A = 125^\circ C$	I_R	5 100					μA μA
Typical junction Capacitance per element (Note 1)	C_J	40					pF
Operating temperature range	T_J	-55 to +150					$^\circ C$
storage temperature range	T_{STG}	-55 to +150					$^\circ C$

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.



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RATINGS AND CHARACTERISTIC CURVES MSB40D THRU MSB40M

Fig.1 Average Rectified Output Current Derating Curve

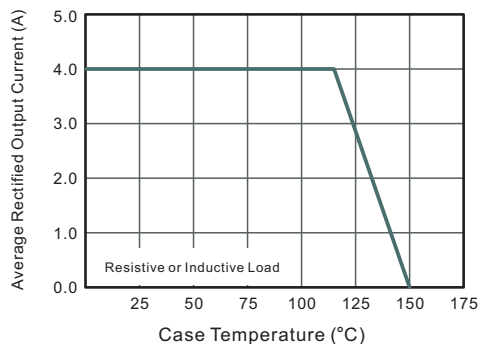


Fig.2 Typical Reverse Characteristics

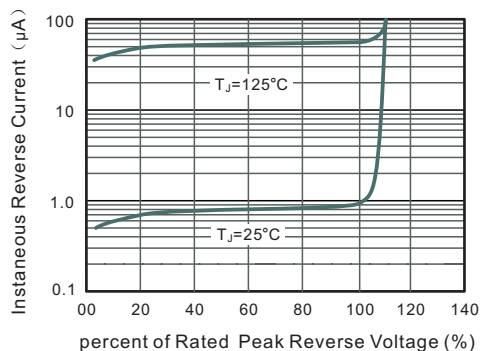


Fig.3 Typical Instantaneous Forward Characteristics

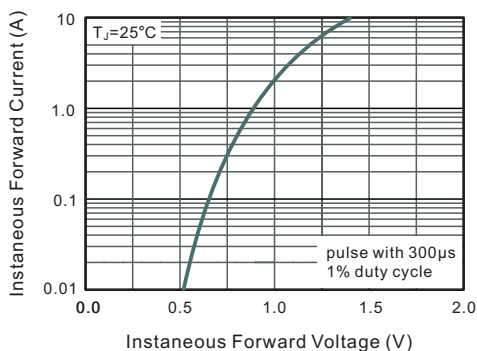


Fig.4 Typical Junction Capacitance

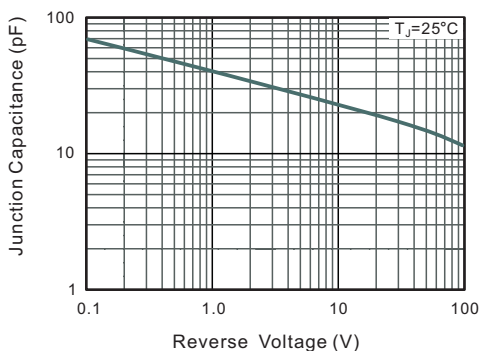
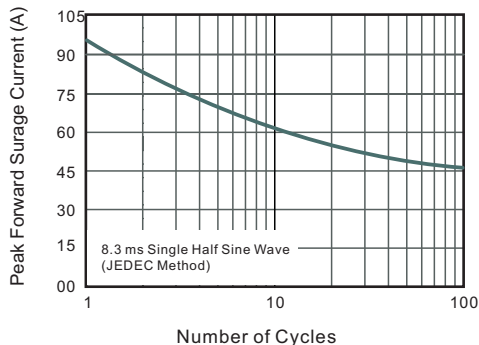


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

