

MSB40B~MSB40M

Single Phase 4.0Amp Glass passivated Bridge Rectifiers

Features

- The plastic package carries Underwriters Laboratory
 Flammability Classification 94V-0
- Idea for printed circuit board
- Glass passivated junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 260°C/10 seconds at terminals

Mechanical Data

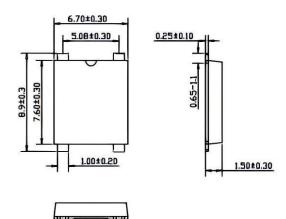
Case: Molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbol marking on body

Mounting Position: Any

MSB Package



Dimensions in millimeters

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 current derate by 20%.

Parameter		MSB40 B	MSB40 D	MSB40 G	MSB40 J	MSB40 K	MSB40 M	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 forward rectified current at TL=100°C	I(AV)	4.0						А
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	150.0						А
Rating for fusing (t=8.3ms, Ta=25°C)		93.375						A^2 s
Maximum instantaneous forward voltage at 4.0A		1.0						V
Maximum DC reverse current T A =25°C at rated DC blocking voltage TA=125°C		2.0 200						u A
Typical junction capacitance (Note 1)	Сл	46						pF
Typical thermal resistance		55						°C/W
Operating junction and storage temperature range		-55 to +150						°C

Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.



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Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

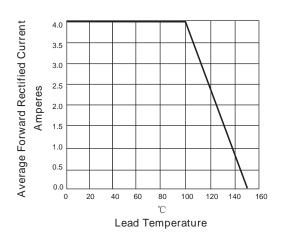
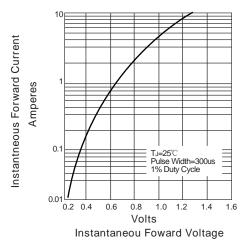


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS



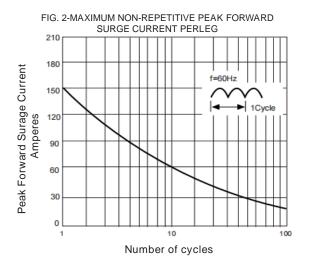
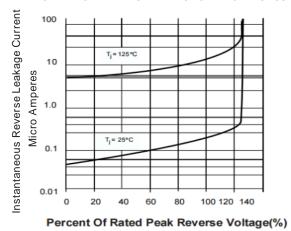
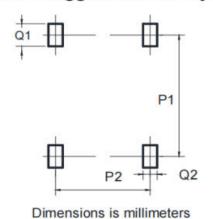


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



MSB Suggested Pad Layout



UNIT		P1	P2	Q1	Q2
mm	min	8.30	5.10	1.6	1.2
mil	min	326.77	200.79	63.0	47.25



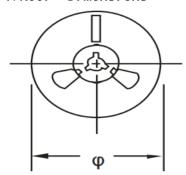
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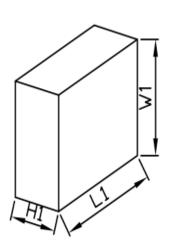


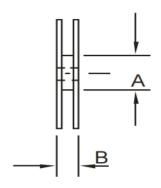
Packaging Information

1. Reel Dimensions

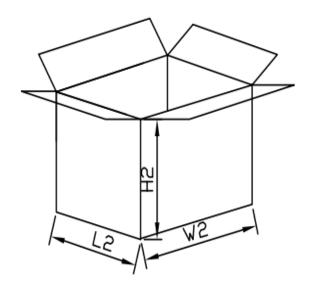


2. Inside Box





3. Outsi de Box





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Packaging Information

NO	UNIT	Reel Dimensions			Inside Box			Outside Box			
		∮	Α	В	L1	W1	H1	L2	W2	H2	
Size	mm	330	100	15	340	340	46	360	360	270	
QTY	PCS	Smallest package,3000PCS/reel			6,000PCS,2 reel in total			30,000PCS/carton,5boxes in total			
Note Tolerance ≤20mm,±3mm; 21-100mm,±5mm; 101-500mm,±10mm											