MSKSEMI 美森科













ESD

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MSB30A THRU MBS30M

Product specification



VOLTAGE RANGE 50 to 1000 Volts

CURRENT 3.0 Ampere



FEATURES

- Glass Passivated Chip Junction
- Reverse Voltage 50 to 1000 V
- Forward Current 3.0 A
- High Surge Current Capability
- Designed for Surface Mount Application

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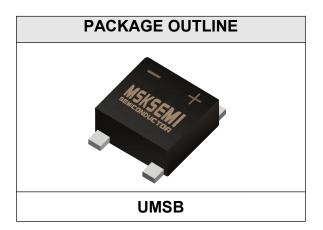
MECHANICAL DATA

Case: UMSB

• Terminals: Solderable per MIL-STD-750,

Method 2026

Approx. Weight: 0.234g / 0.00825oz



Maximum Ratings and Electrical characteristics

Rating 25° C ambient temperature uniess otherwies specified .

Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	MSB30A	MSB30B	MSB30D	MSB30G	MSB30J	MSB30K	мѕвзом	UNIT
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current								
at Ta=40°C (Note 1)	3.0					Α		
Peak Forward Surge Current, 8.3 ms single half								
sine-wave superimposed on rated load (JEDEC method)	8 0				Α			
I ² t Rating for Fusing (1ms < t < 8.3ms)	42				A ² S			
Maximum Forward Voltage Drop per Bridge Element at 3.0A	1.1				V			
Maximum DC Reverse Current Ta=25°C	5.0					μΑ		
at Rated DC Blocking Voltage Ta=125°C	200				μA			
Typical Thermal Resistance R JA (Note 2)	30			C/W				
Operating Temperature Range, T _J	-55 —— +150				$^{\circ}$			
Storage Temperature Range, Тsтс	-55 +150				°C			

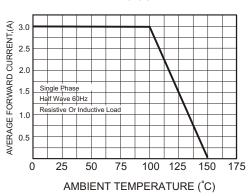
NOTES: 1. Mounted on P.C. Board.

2. Thermal Resistance Junction to Ambient.



RATING AND CHARACTERISTIC CURVES (MSB30A THRU MBS30M)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE





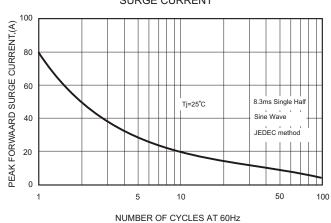


FIG.3-TYPICAL FORWARD

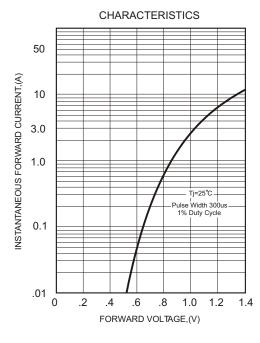
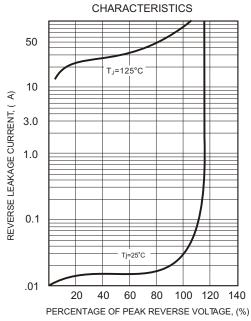
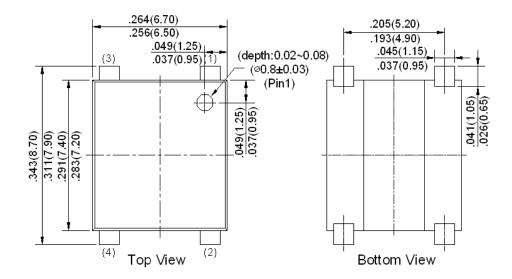


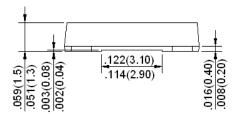
FIG.4-TYPICAL REVERSE





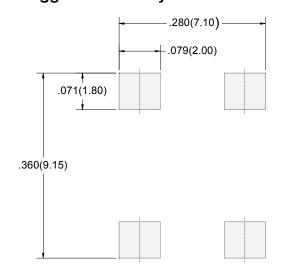
UMSB Package Outline Dimensions





Dimensions in inches and (millimeters)

UMSB Suggested Pad Layout



Note:

- 1. Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
MSB30A THRU MBS30M	UMSB	3000



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