MSKSEMI 美森科







TVC



TOO



MOV



GDT



DIED

FMSB30A THRU FMBS30M

Product specification



CURRENT 3.0 Ampere

VOLTAGE RANGE 50 to 1000 Volts



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

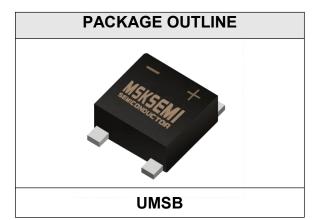
MECHANICAL DATA

Case: UMSB

Terminals: Solderable per MIL-STD-750,

Method 2026

Approx. Weight: 0.234g / 0.00825oz



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating $25\,^{\circ}$ C ambient temperature unless otherwies specified . Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	FMSB30A	FMSB30B	FMSB30D	FMSB30G	FMSB30J	FMSB30K	FMSB30M	UNIT
Maximum Recurrent Peak Reverse Voltage		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=25℃		3.0				Α		
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		80					А	
I ² t Rating for Fusing (1ms < t < 8.3ms)		42				A ² S		
Maximum Forward Voltage Drop per Bridge Element at 3.0A.		1.3				V		
Maximum DC Reverse Current Ta=25°℃		5.0			μA			
at Rated DC Blocking Voltage Ta=100℃		200				μA		
Maximum Reverse Recovery Time (Note 1)		500				TRR		
Typical Junction Capacitance (Note 2)		40			pF			
Typical Thermal Resistance R JA (Note 3)	30			C/W				
Operating and Storage Temperature Range ТJ, Тsтв		-65 —— +150			$^{\circ}$			

NOTES:

- 1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A
- 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 3. Thermal Resistance from Junction to Ambient.



RATING AND CHARACTERISTIC CURVES (FMSB30A THRU FMBS30M)

FIG.1-TYPICAL FORWARD CURRENT **DERATING CURVE**

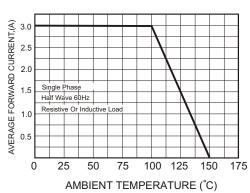


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

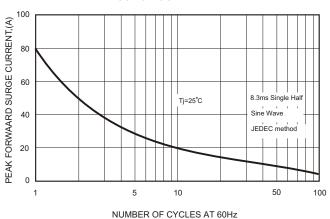
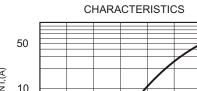
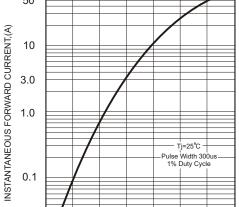


FIG.3-TYPICAL FORWARD





1.6

1.4

FORWARD VOLTAGE,(V)

1.8

FIG.4-TYPICAL REVERSE

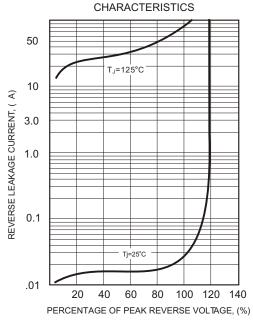
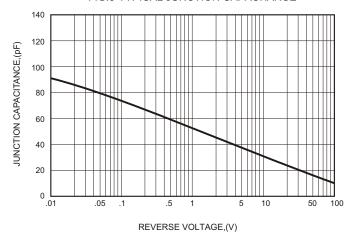


FIG.5-TYPICAL JUNCTION CAPACITANCE



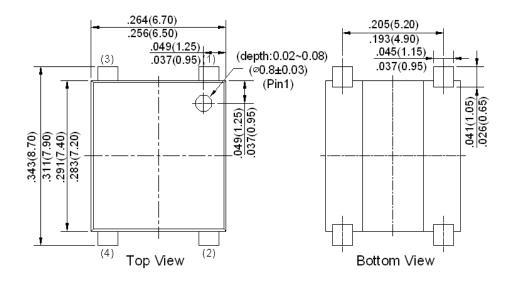
.01

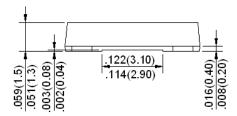
.8 .6

1.0 1.2



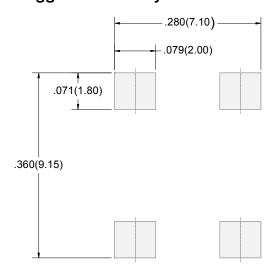
UMSB Package Outline Dimensions





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
FMSB30A THRU FMBS30M	UMSB	3000



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