MSKSEMI 美森科













ESD

TVS

TSS

MOV

GDT

PIFD

FMSB40A THRU FMBS40M

Product specification



CURRENT 4.0 Ampere

VOLTAGE RANGE 50 to 1000 Volts



FEATURES

- Glass Passivated Chip Junction
- Reverse Voltage 50 to 1000 V
- Forward Current 4.0 A
- High Surge Current Capability
- Designed for Surface Mount Application

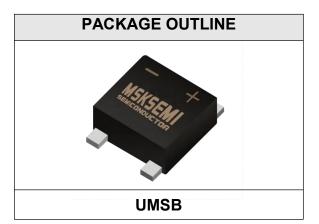
MECHANICAL DATA

Case: UMSB

• Terminals: Solderable per MIL-STD-750,

Method 2026

Approx. Weight: 0.234g / 0.00825oz



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

TYPE NUMBER	FMSB40A	FMSB40B	FMSB40D	FMSB40G	FMSB40J	FMSB40K	FMSB40M	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=25℃		4.0					Α	
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		95					А	
I^2t Rating for Fusing (1ms < t < 8.3ms)		60				A ² S		
Maximum Forward Voltage Drop per Bridge Element at 4.0A.		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)		50			pF			
Typical Thermal Resistance R JA (Note 3)		30				°C/W		
Operating and Storage Temperature Range T _J , Tsτ _G		-65 —— +150				℃		

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 (FMSB40A THRU FMBS40M)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

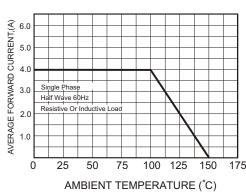


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

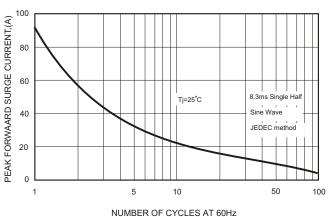


FIG.3-TYPICAL FORWARD

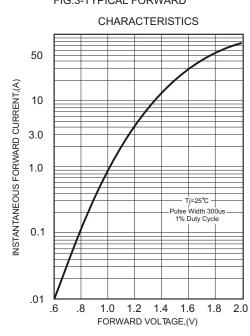


FIG.4-TYPICAL REVERSE

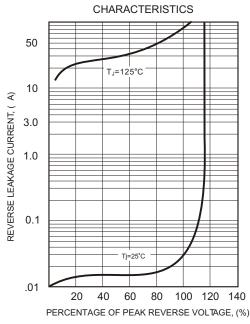
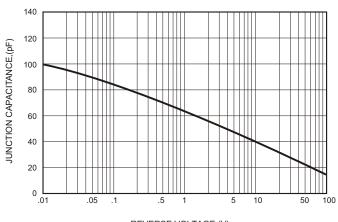
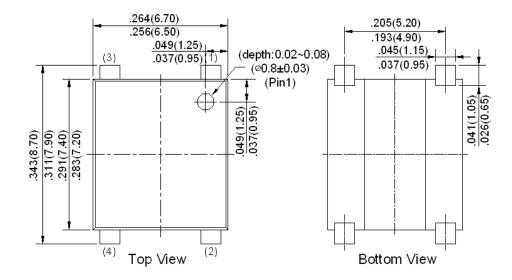


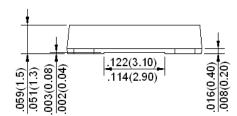
FIG.5-TYPICAL JUNCTION CAPACITANCE





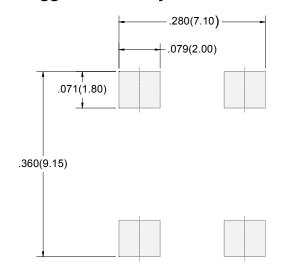
UMSB Package Outline Dimensions





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
FMSB40A THRU FMBS40M	UMSB	3000



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