

MSB403E-MSB406E UMSB

Super Fast Recovery Rectifier Bridge Reverse Voltage - 300 to 600 V Forward Current – 4A

FEATURES

High current capability
Low forward voltage drop
Glass Passivated Chip Junction
Low power loss, high efficiency
Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

Case: UMSB
Terminals: Solderable per MIL-STD-750, Method 2026
Approx. Weight: 233.7mg / 0.00824oz



UMSB

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	MSB403E	MSB406E	Units
Maximum Repetitive Peak Reverse Volta	ge V _{RRM}	300	600	v
Maximum RMS voltage	V _{rms}	200	420	v
Maximum DC Blocking Voltage	V _{DC}	300	600	v
Average Rectified Output Current t T_c = 125 °C	I _(AV)	4.0		A
eak Forward Surge Current 8.3 ms Single ine-Wave Superimposed on Rated Load JEDEC method)	e Half I _{FSM}	125		A
Forward Voltage per element @IF =4A	DC V _F	1.20	1.50	v
Maximum Reverse Recovery Time	Trr	50		nS
Maximum DC Reverse Current	°C I _R -	5		μΑ
at Rated DC Blocking Voltage @Ta=12		500		P
Typical Junction Capacitance C _j		5	0	pF
Operating and Storage Temperature Ra	nge Tj, Tstg	-55 ~ +175		°C

(1) Measured at 1 MHz 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.



Ratings and Characteristic Curves







0.0 0.5 1.0 1.5 Instaneous Forward Voltage (V)



Fig.2 Typical Reverse Characteristics



Fig.4 Typical Junction Capacitance





Marking Diagram



Ordering information

Package	Packing Description	Packing Quantity	
UMSB	Tape/Reel,13"reel	3000PCS/Reel 30000PCS/Carton	

Package Dimensions

UMSB



The recommended mounting pad size



Unit: mm (mil)



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