

5A SURFACE MOUNT SCHOTTKY BRIDGE RECTIFIER

Reverse Voltage - 60 V Forward Current – 5A

FEATURES

High current capabilityLow forward voltage dropDesigned for Surface Mount Application

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



Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	MSB56L	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	60	v
Maximum RMS voltage	V _{RMS}	42	v
Maximum DC Blocking Voltage	V _{DC}	60	v
Average Rectified Output Current	I _o	5.0	А
Peak Forward Surge Current 8.3 ms Single Half Sine- Wave Superimposed on Rated Load(JEDEC method)	I _{fsm}	80	Α
Forward Voltage per element @I _F =3A @I _F =5A	V _F	0.45(TYP) 0.59	v
Maximum DC Reverse Current at Rated DC Blocking Voltage @T _A =25°C	I _R	0.3	mA
Typical Junction Capacitance (Note1)	Cj	300	pF
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150	°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.













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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