

MB34S THRU MB320S MBS

3A SURFACE MOUNT SCHOTTKY BRIDGE

RECTIFIER Reverse Voltage - 40 to 200 V

Forward Current - 3A

FEATURES

High current capability
Low forward voltage drop
Low power loss, high efficiency

Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

Case: MBS
Terminals: Solderable per MIL-STD-750, Method 2026
Approx. Weight: 100mg /0.0035oz



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	MB34S	MB36S	MB38S	MB310S	MB320S	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	40	60	80	100	200	v
Maximum RMS voltage	V _{RMS}	28	42	56	70	140	v
Maximum DC Blocking Voltage	V _{DC}	40	60	80	100	200	v
Average Rectified Output Current	I _{F(AV)}	3			A		
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC method)	I _{FSM}	80 70			A		
Max Instantaneous Forward Voltage at 3 A	V _F	0.55	0.70	0.	85	0.95	v
Maximum DC Reverse Current @T _A =25°C at Rated DC Blocking Voltage _{@T_A=100°C}	I _R	0.5 10	0.3 5			μΑ	
Typical Junction Capacitance (Note1)	Cj	250 160			pF		
Typical Thermal Resistance (Note2)	$R_{ extsf{ heta}JA}$	60				°C/W	
Operating and Storage Temperature Range	Tj	-55 ~ +150				°C	
Storage Temperature Range	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.1 Forward Current Derating Curve



Fig.3 Typical Forward Characteristic





Fig.2 Typical Reverse Characteristics



Fig.4 Typical Junction Capacitance







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Marking Diagram



Ordering information

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

Package Dimensions

MBS



The recommended mounting pad size







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