



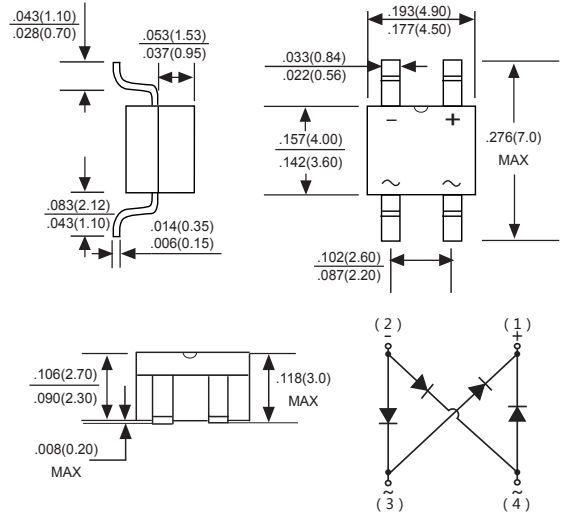
MB24S THRU MB220S

Voltage Range - 40 to 200 V olts Current - 2.0 Ampere

Schottky Surface Mount Flat Bridge Rectifier

Features

- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction utilizing molded plastic technique
- ◆ High temperature soldering guaranteed: 260°/10 seconds at 5 lbs., (2.3kg) tension
- ◆ Small size, simple installation
- ◆ High surge current capability



Dimensions in inches and (millimeters)

Mechanical Data

Case : JEDEC MBS Molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
Polarity : Polarity symbol marking on body
Mounting Position : Any
Weight : 0.008 ounce, 0.22 grams

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

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

Parameter	SYMBOLS	MDD	MDD	MDD	MDD	MDD	UNITS	
		MB24S	MB26S	MB28S	MB210S	MB220S		
Marking Code								
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	
Maximum average forward rectified current	$I_{F(AV)}$	2.0						A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50		40				A
Maximum instantaneous forward voltage at 2A	V_F	0.55	0.70	0.85				V
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=100^\circ\text{C}$	I_R	0.5 10		0.3 5				mA
Typical junction capacitance at 4.0V, 1.0MHz	C_j	220	80					pF
Typical thermal resistance (Note1)	$R_{\theta JA}$	75						°C/W
Operating temperature range	T_J	- 5 5 to + 1 2 5						°C
storage temperature range	T_{STG}	-55 to +150						°C

Note: 1. Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.



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Ratings And Characteristic Curves

Fig.1 Forward Current Derating Curve

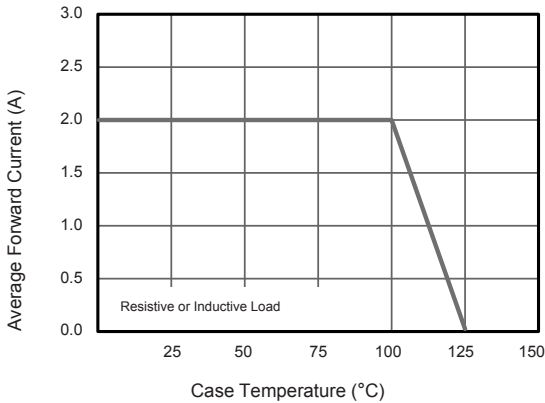


Fig.2 Typical Reverse Characteristics

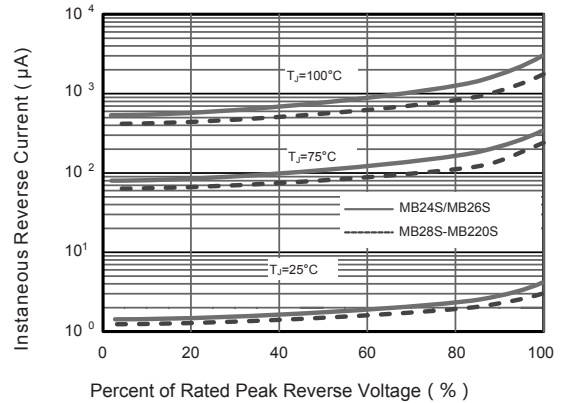


Fig.3 Typical Forward Characteristic

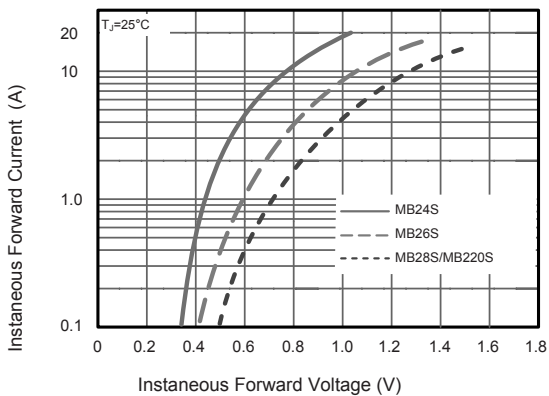


Fig.4 Typical Junction Capacitance

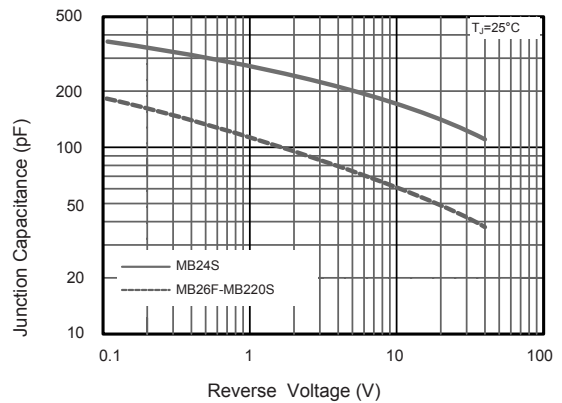


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

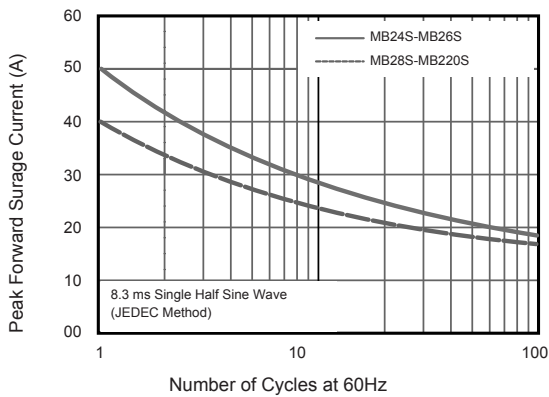
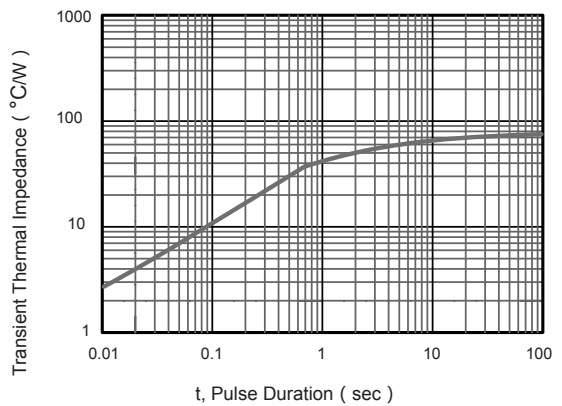


Fig.6- Typical Transient Thermal Impedance



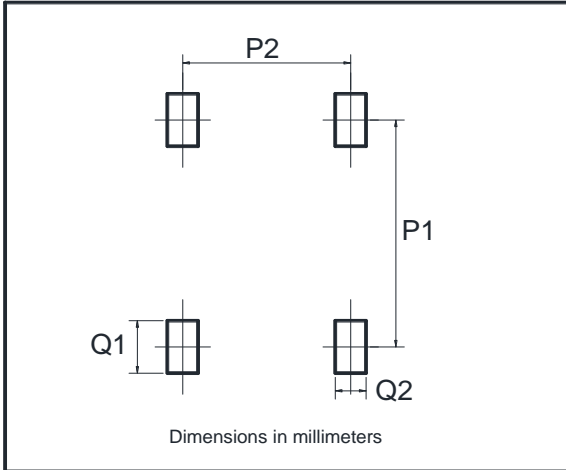
The curve above is for reference only.



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Suggested Pad Layout



Dim	Min
P1	6.00
P2	2.40
Q1	1.84
Q2	1.20