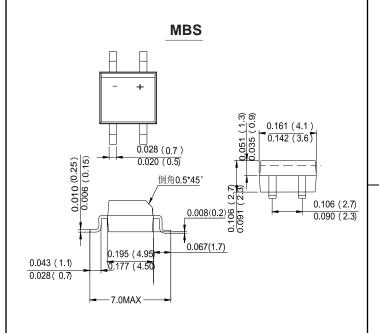


MB24S THRU MB220S

Schottky Surface Mount Flat Bridge Rectifier

Reverse Voltage - 40 to 200 Volts Forward Current - 2.0 Amperes



Dimensions in inches and (millimeters)

FEATURES

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

MECHANICAL DATA

Case: Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750,

Method 2026

Polarity: Polarity symbols marked on case

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 current capacitive load, derate by 20%.

TWGMC Catalog Number	Symbol	MB24S	MB26S	MB28S	MB210S	MB220S	UNIT
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 0.2×0.2"(5.0×5.0mm)copper pad area	I _{F(AV)}	2.0					Α
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	Ę	50 40			А	
Maximum instantaneous forwad voltage at 2.0A	V_{F}	0.55	0.70	0.70 0.85			V
Maximum DC reverse current $T_A = 25 ^{\circ}\mathbb{C}$ at Rated DC blocking voltage $T_A = 100 ^{\circ}\mathbb{C}$	I _R	0.5 10			0.3 5		mA
Typical Junction Capacitance at 4.0V,1.0MHz	CJ	220 80			pF		
Typical Thermal resistance (Note1)	$R_{ heta JA}$ $R_{ heta JL}$	75 20					℃/W
Operating junction temperature range	T_J	-55 to +125					${\mathbb C}$
Storage temperature range	T _{STG}	– 55 to +150					${\mathbb C}$

Note: 1.Thermal resistance from junction to ambient and from junction to lead P.C.B.mounted on 0.2×0.2"(5.0×5.0mm)copper pad areas.

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RATINGS AND CHARACTERISTIC CURVES MB22S THRU MB210S

Fig.1 Forward Current Derating Curve

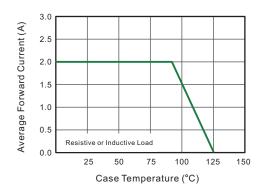


Fig.2 Typical Reverse Characteristics

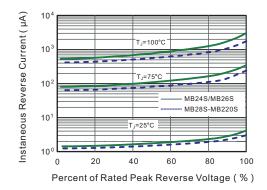


Fig.3 Typical Forward Characteristic

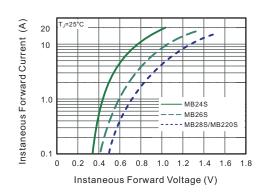


Fig.4 Typical Junction Capacitance

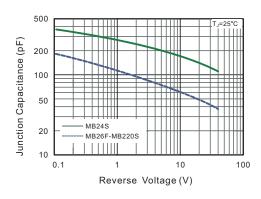


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

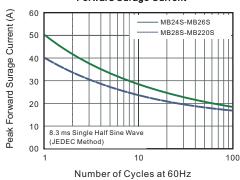
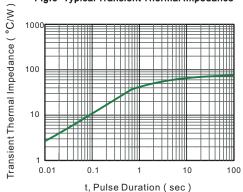


Fig.6- Typical Transient Thermal Impedance



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

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