



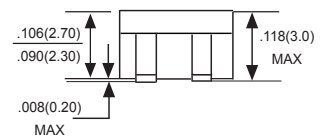
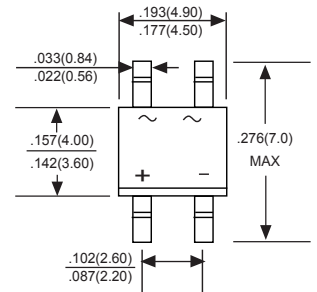
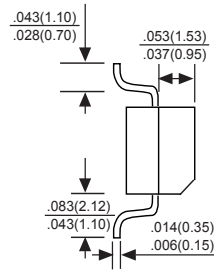
# MB14S THRU MB120S

Voltage Range - 40 to 200 V olts Current - 1.0 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 :** 0.0035 ounce, 0.1 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	MB14S	MB16S	MB18S	MB110S	MB120S	UNITS
		MDD MB14S	MDD MB16S	MDD MB18S	MDD MB110S	MDD MB120S	
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	$I_{F(AV)}$	1.0					A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	30					A
Maximum instantaneous forward voltage at 1A	$V_F$	0.55	0.70	0.85	0.90		V
Maximum DC reverse current at rated DC blocking voltage $T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$	$I_R$	0.3 10		0.2 5	0.1 2		mA
Typical junction capacitance at 4.0V, 1.0MHz	$C_j$	110	80				pF
Typical thermal resistance	$R_{\theta JA}$ $R_{\theta JL}$	100 20					°C/W
Operating temperature range	$T_J$	-55 to +150					°C
storage temperature range	$T_{STG}$	-55 to +150					°C

NOTE: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

2. Mounted on glass epoxy P C board with 4 X (5X5mm) copper pad.



## Ratings And Characteristic Curves

Fig.1 Forward Current Derating Curve

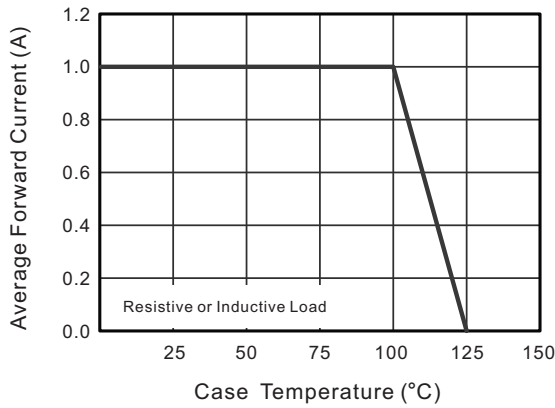


Fig.2 Typical Reverse Characteristics

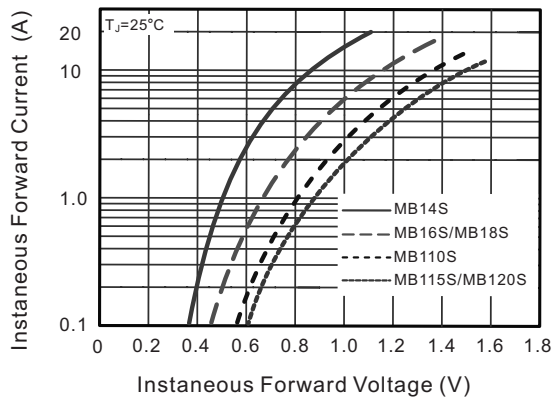
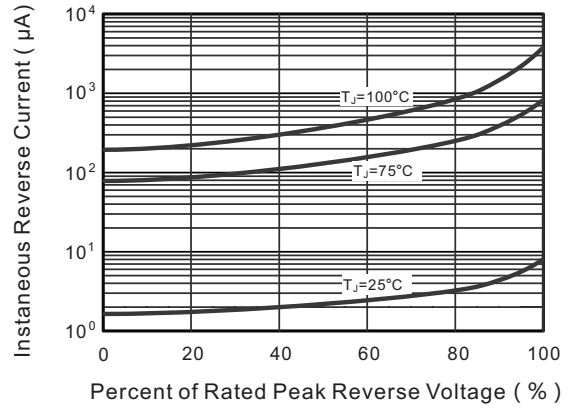


Fig.4 Typical Junction Capacitance

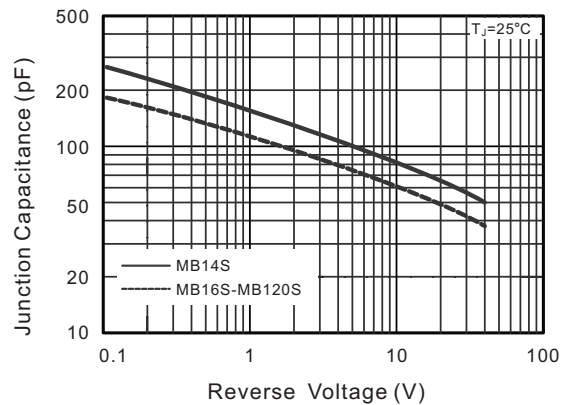


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

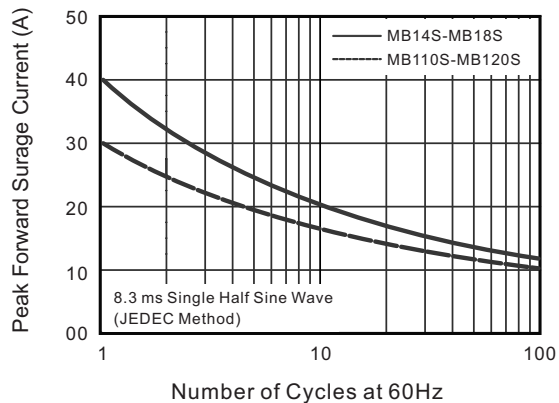
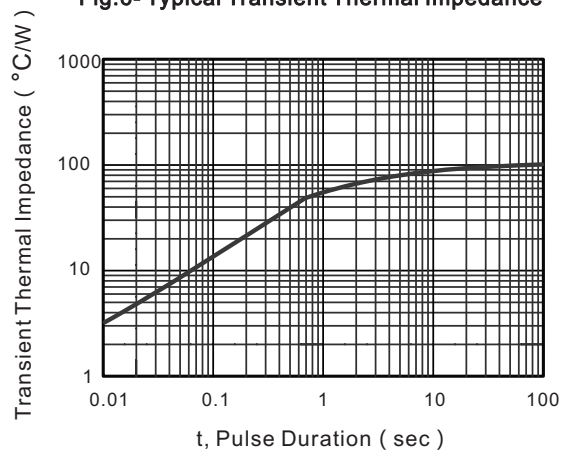


Fig.6 Typical Transient Thermal Impedance



The curve above is for reference only.

单击下面可查看定价，库存，交付和生命周期等信息

[>>MDD\(辰达行\)](#)