

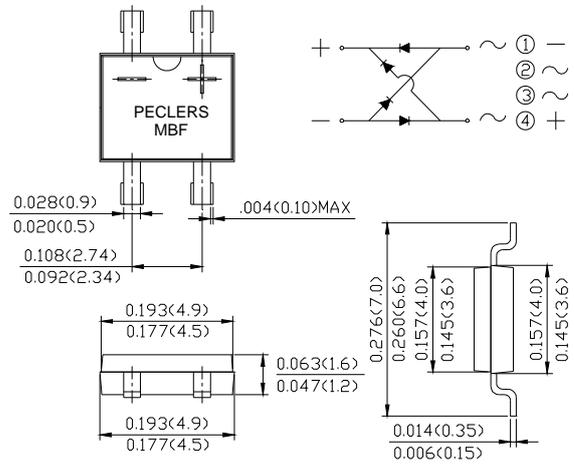
**REVERSE VOLTAGE:** 20 to 100 VOLTS  
**FORWARD CURRENT:** 2.0 AMPERE

### FEATURES

- Surge overload rating: 50 amperes peak
- Ideal for printed circuit board
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- Low leakage
- Reliable low cost construction utilizing molded

### MECHANICAL DATA

Case: Molded plastic, MBF  
 Epoxy: UL 94V-0 rate flame retardant  
 Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed  
 Mounting position: Any  
 Weight: 0.008ounce, 0.18gram



Dimensions in inches and (millimeters)

### 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, derate current by 20%.

	Symbols	MB22F	MB24F	MB26F	MB28F	MB210F	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	40	60	80	100	Volts
Maximum RMS Voltage	$V_{RMS}$	14	28	42	56	70	Volts
Maximum DC Blocking Voltage	$V_{DC}$	20	40	60	80	100	Volts
Maximum average forward rectified current 0.2×0.2"(5.0×5.0mm)copper pad area (see Fig. 1)	$I_{(AV)}$	2.0					Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	50					Amp
Maximum Forward Voltage at 2.0A (Note 1)	$V_F$	0.55		0.75		0.90	Volts
Maximum Reverse Current at Rated DC Blocking Voltage at $T_A=25^\circ\text{C}$ $T_A=125^\circ\text{C}$	$I_R$	0.5 20.0					mAmp
Typical Junction Capacitance (Note 2)	$C_J$	250			125		pF
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$ $R_{\theta JL}$	85 20					°C/W
Operating Junction Temperature Range	$T_J$	-55 ~ +125					°C
Storage Temperature Range	$T_{stg}$	-55 ~ +150					°C

### NOTES:

1. Pulse test: 300μS pulse width, 1% duty cycle
2. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts
3. Thermal resistance from junction to ambient and from junction to lead P.C.B. mounted on 0.2x0.2"(5.0x5.0mm) copper pad areas.

### RATINGS AND CHARACTERISTIC CURVES

Fig. 1-FORWARD CURRENT DERATING CURVE

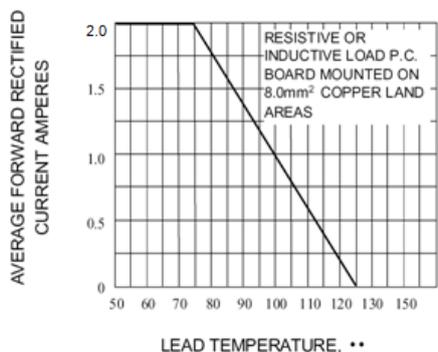


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

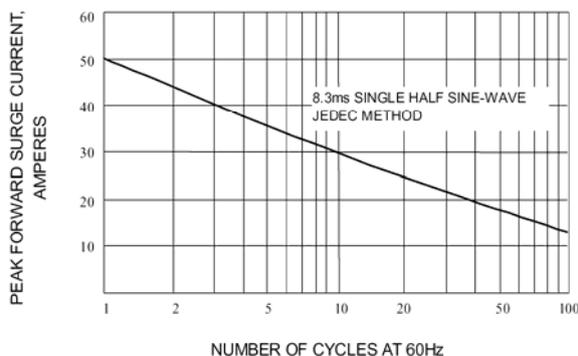


Fig. 3 - Typical Instantaneous Forward Characteristics

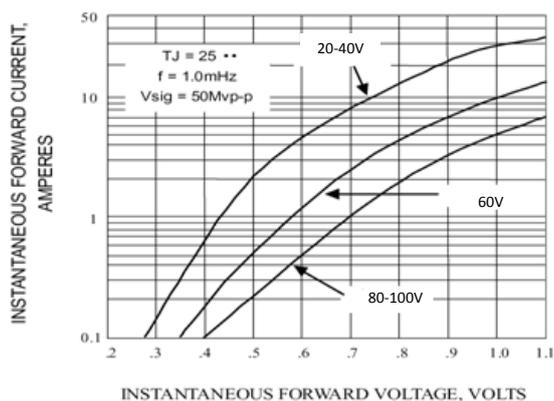


Fig. 4A - Typical Reverse Characteristics

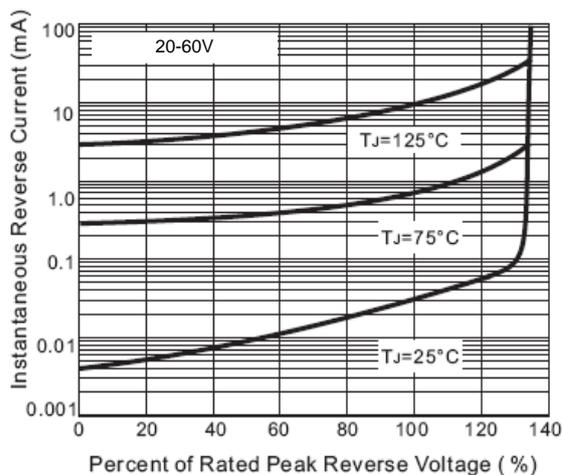


Fig. 5 - Typical Junction Capacitance

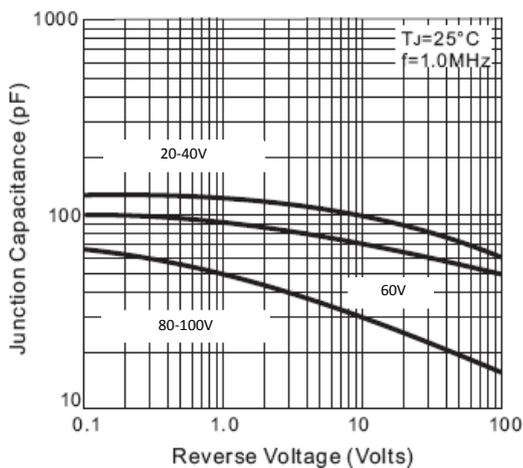


Fig. 4B - Typical Reverse Characteristic

