

## MB22S~MB210S

### Single Phase 2.0 Amp Schottky Barrier Bridge Rectifiers

#### Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- High forward surge current capability
- High temperature soldering guaranteed 250°C/10 seconds at terminals

#### Mechanical Data

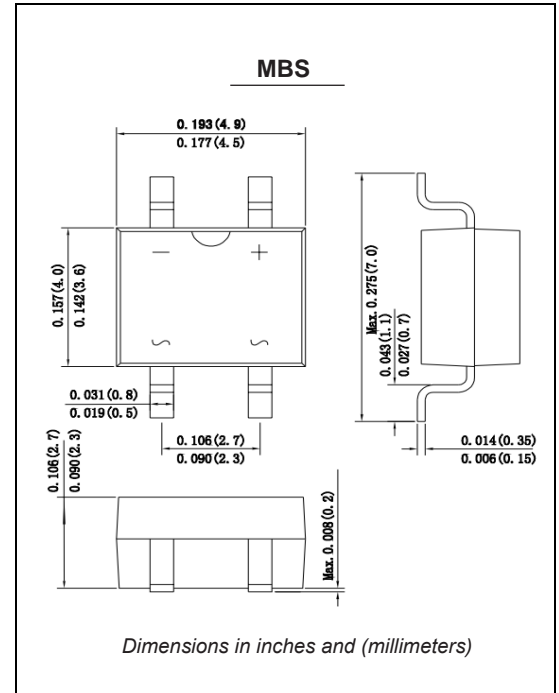
**Case:** Molded plastic body

**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%.

	SYMBOLS	MB22S	MB24S	MB26S	MB28S	MB210S	UNITS
Maximum repetitive 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	$I_{(AV)}$	2.0					Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50.0					Amps
Maximum instantaneous forward voltage at 2A	$V_F$	0.55		0.70		0.85	Volts
Maximum DC reverse current $T_A = 25^\circ C$ at rated DC blocking voltage $T_A = 125^\circ C$	$I_R$	0.5 20					mA
Typical thermal resistance (Note 1)	$R_{qJA}$	80					$^\circ C/W$
Operating junction and storage temperature range	$T_J, T_{STG}$	-50 to +155					$^\circ C$

**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

# Ratings And Characteristic Curves

## MB22S THRU MB210S

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

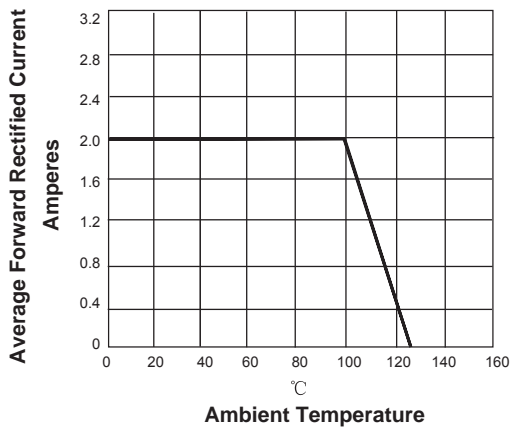


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

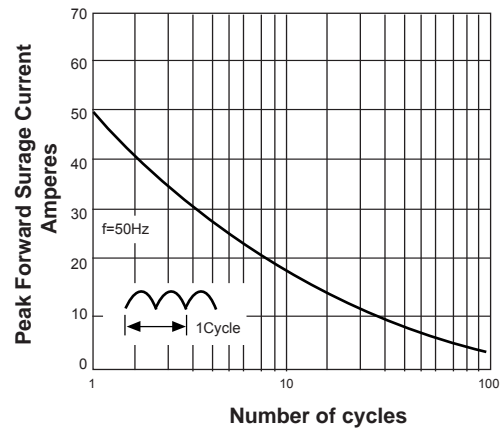


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

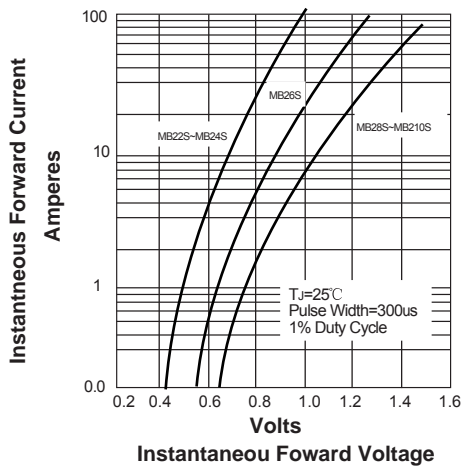


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

