



ABS

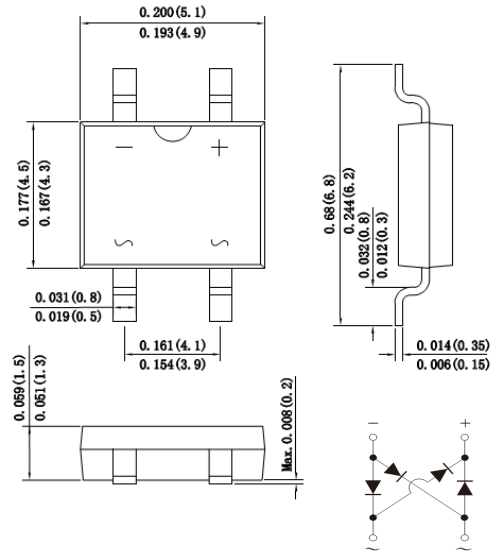


**Features**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- Glass passivated Junction chip
- Low reverse leakage
- 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** : 0.0034 ounce, 0.098 grams



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 current derate by 20%.

Parameter	SYMBOLS	ABS2	ABS4	ABS6	ABS8	ABS10	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	140	280	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	200	400	600	800	1000	V
Maximum average forward rectified current at $T_L=100^\circ C$ On glass-epoxy P.C.B (Note 1)	$I_{(AV)}$	0.8					A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	30.0					A
Rating for fusing ( $t=8.3ms, T_A=25^\circ C$ )	$I_t^2$	3.74					$A_s^2$
Maximum instantaneous forward voltage at 0.8A	$V_F$	1.10					V
Maximum DC reverse current $T_A = 25^\circ C$ at rated DC blocking voltage $T_A = 125^\circ C$	$I_R$	5.0 500					$\mu A$
Typical junction capacitance (Note 2)	$C_J$	15.0					pF
Typical thermal resistance	$R_{qJA}$	75.0					$^\circ C/W$
Operating junction and storage temperature range	$T_J, T_{STG}$	-55 to +150					$^\circ C$

**Note:** 1. Mounted on glass epoxy PC board with 1.3\*1.3mm solder pad  
 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.



**Ratings And Characteristic Curves**

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

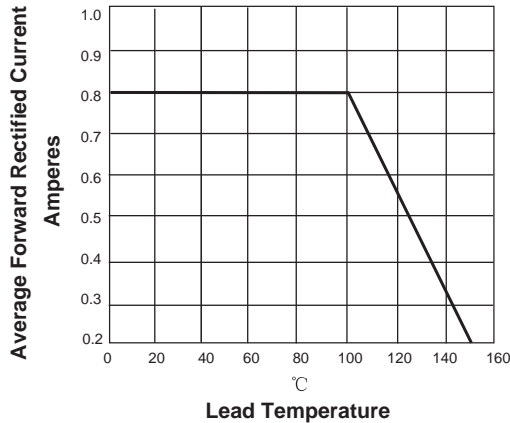


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

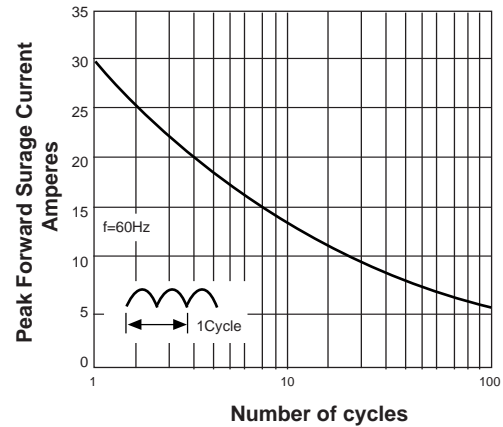


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

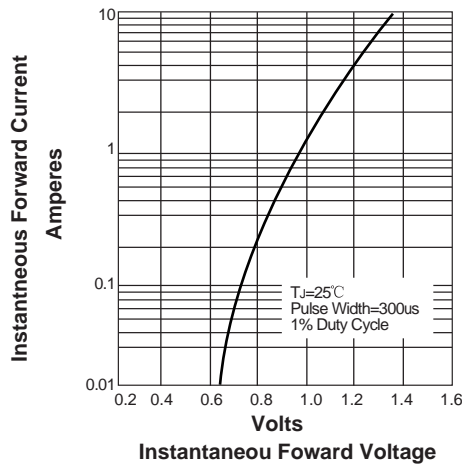
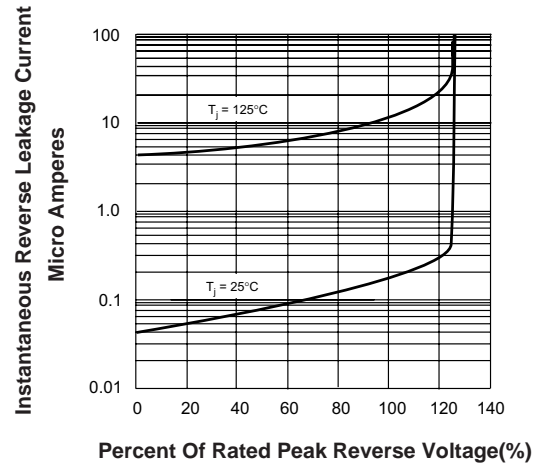
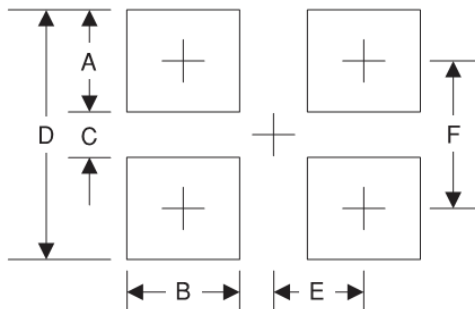


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



**Suggested Pad Layout**



Symbol	Unit (mm)	Unit (inch)
A	1.5	0.059
B	1.0	0.039
C	4.22	0.166
D	7.22	0.284
E	2.0	0.078
F	5.70	0.224