

ABS2~ABS10

Single Phase 0.8 or 1.0Amp Glass passivated Bridge Rectifiers

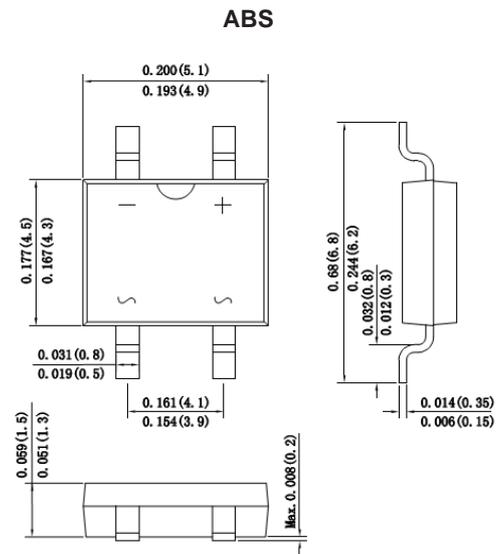


Features

- 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 :** 0.004 ounce, 0.12 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%.

| | SYMBOLS | ABS2 | ABS4 | ABS6 | ABS8 | ABS10 | UNITS |
|--|----------------|------|------|-------------|------|-------|--------------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum RMS voltage | V_{RMS} | 140 | 280 | 420 | 560 | 700 | VOLTS |
| Maximum DC blocking voltage | V_{DC} | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum average forward rectified current at $T_L=30^\circ C$ On glass-epoxy P.C.B (Note 1) On aluminum substrate (Note 2) | I_{AV} | | | 0.8 1.0 | | | Amp |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | | | 30.0 | | | Amps |
| Maximum instantaneous forward voltage at 1.0A | V_F | | | 1.05 | | | Volts |
| Maximum DC reverse current $T_A = 25^\circ C$ at rated DC blocking voltage $T_A = 125^\circ C$ | I_R | | | 5.0 500 | | | μA |
| Typical junction capacitance (Note 3) | 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} | | | -50 to +155 | | | $^\circ C$ |

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

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

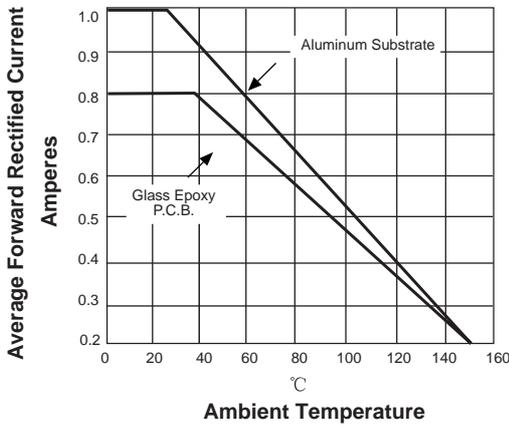


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

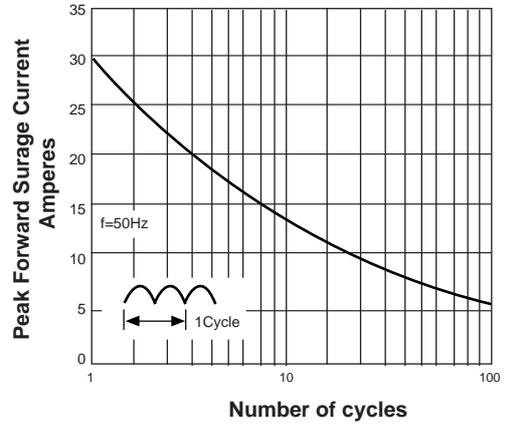


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

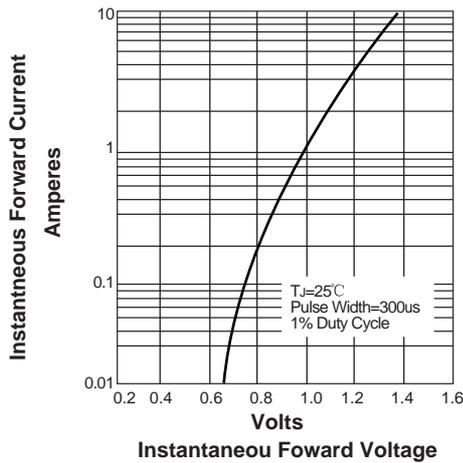


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

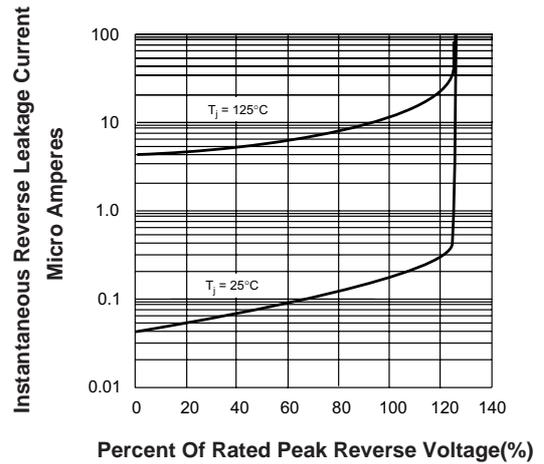


FIG. 5-TYPICAL JUNCTION CAPACITANCE

