

ABS22~ABS210

Single Phase 2.0Amp Glass passivated Bridge Rectifiers

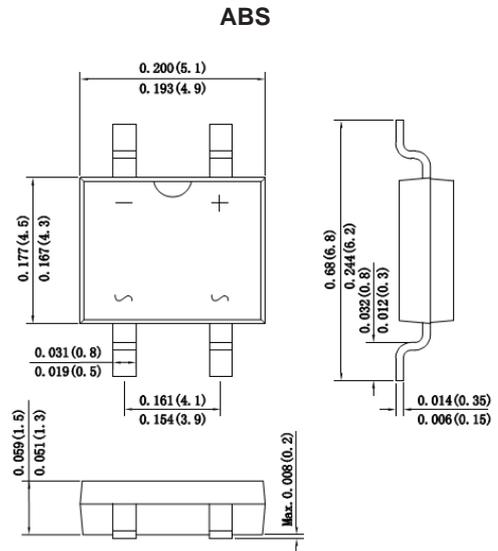


Features

- 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	ABS22	ABS24	ABS26	ABS28	ABS210	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}			1.5 2.0			Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}			60.0			Amps
Maximum instantaneous forward voltage at 2.0A	V_F			1.1			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

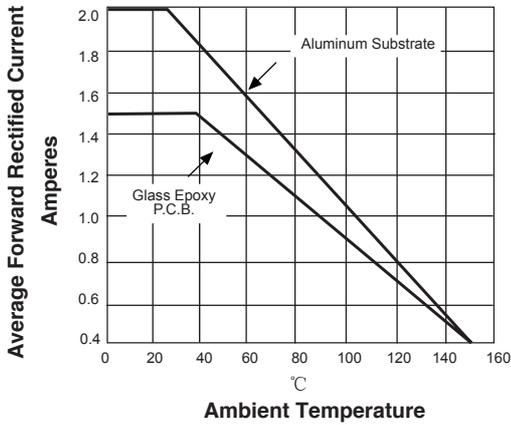


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

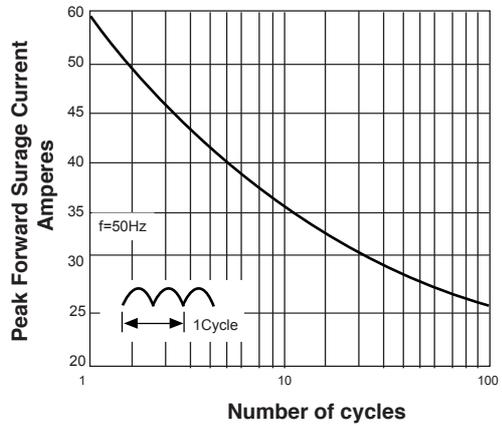


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

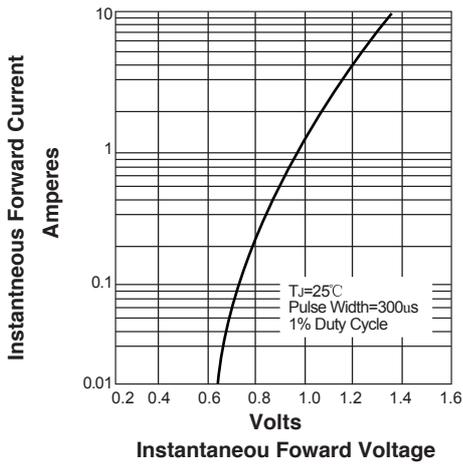


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

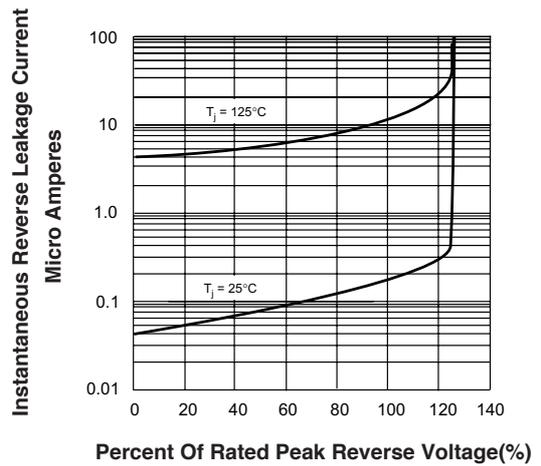


FIG. 5-TYPICAL JUNCTION CAPACITANCE

