



PINGWEI ENTERPRISE

ABS202 THRU ABS210

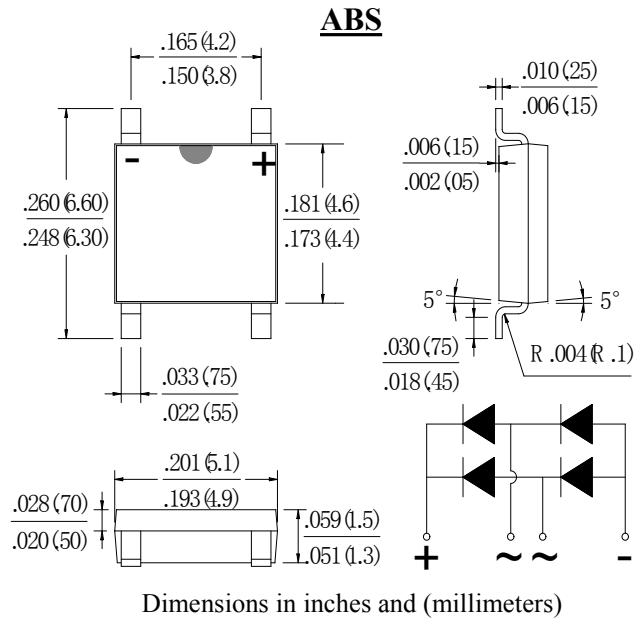
SINGLE PHASE 2.0AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS

FEATURE

- . Glass passivated junction.
- . Ideal for printed circuit board.
- . Reliable low cost construction utilizing molded plastic technique.
- . High surge current capability.
- . High temperature soldering guaranteed: 260°C/10 seconds at terminals.
- . UL Recognized File # E338195.

MECHANICAL DATA

- . Case Material: "Green" Molding compound, UL flammability classification rating 94V-0, "Free halogen"
- . Moisture sensitivity level: level 2a, per J-STD-020
- . Polarity: Polarity as marked on the body
- . Weight: 0.10g (approximately)



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%

| Type Number | SYM BOL | ABS202 | ABS204 | ABS206 | ABS208 | ABS210 | units |
|---|----------------------|--------------|--------|--------|--------|--------|----------------|
| Maximum Recurrent 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 @ $T_A=40^\circ C$ | $I_{F(AV)}$ | 2.0 | | | | | A |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method) | I_{FSM} | 55 | | | | | A |
| Maximum Instantaneous Forward Voltage @ $I_F=2.0A$ DC @ $I_F=1.0A$ DC | V_F | 1.1 0.95 | | | | | V |
| Maximum DC Reverse Current @ $T_J=25^\circ C$ at rated DC blocking voltage @ $T_J=125^\circ C$ | I_R | 5.0 100.0 | | | | | μA |
| I^2t Rating for Fusing ($t < 8.3ms$) | I^2t | 12.5 | | | | | A^2Sec |
| Typical Junction Capacitance Per Leg (Note1) | C_J | 25 | | | | | pF |
| Typical Thermal Resistance (Note2) | R_{JC} R_{JA} | 18 50 | | | | | $^\circ C / W$ |
| Storage Temperature | T_{STG} | -55 to +150 | | | | | $^\circ C$ |
| Operating Junction Temperature | T_J | -55 to +150 | | | | | $^\circ C$ |

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
 2. Thermal resistance junction to case, lead and ambient in accordance with JESD-51.
- Unit mounted on glass-epoxy substrate with 1oz/ft² 20x20 mm copper pad per pin with heatsink

RATING AND CHARACTERISTIC CURVES (ABS202 THRU ABS210)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

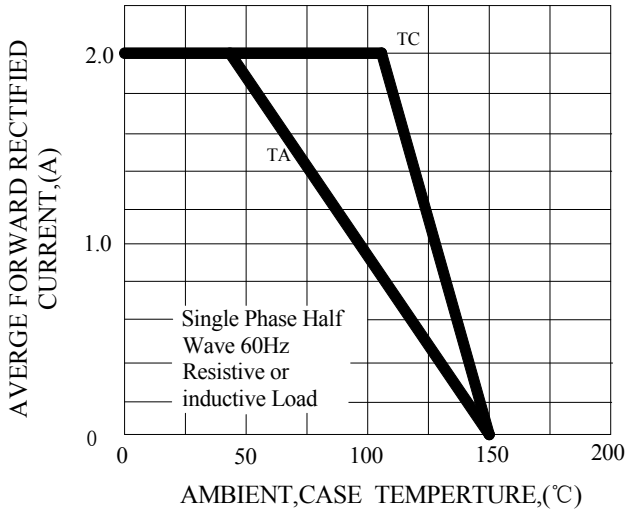


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

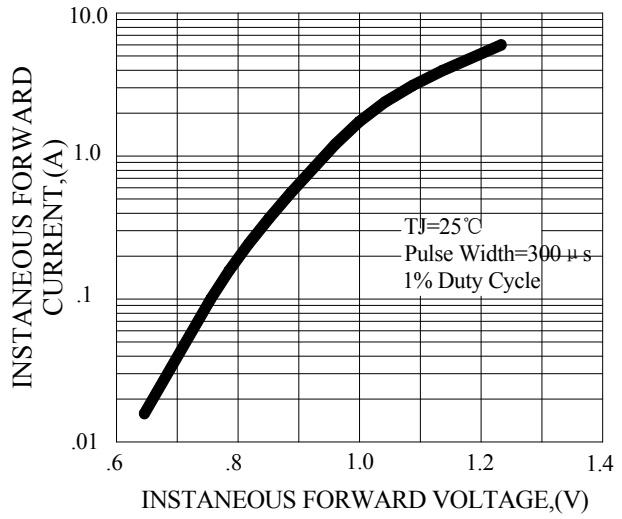


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

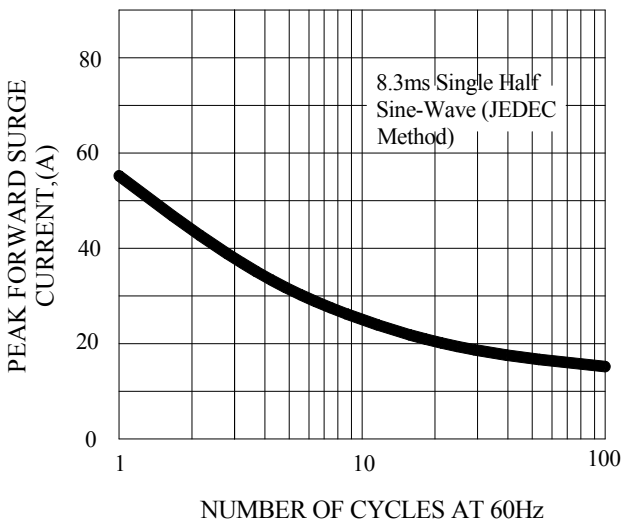


FIG.4-TYPICAL REVERSE CHARACTERISTICS

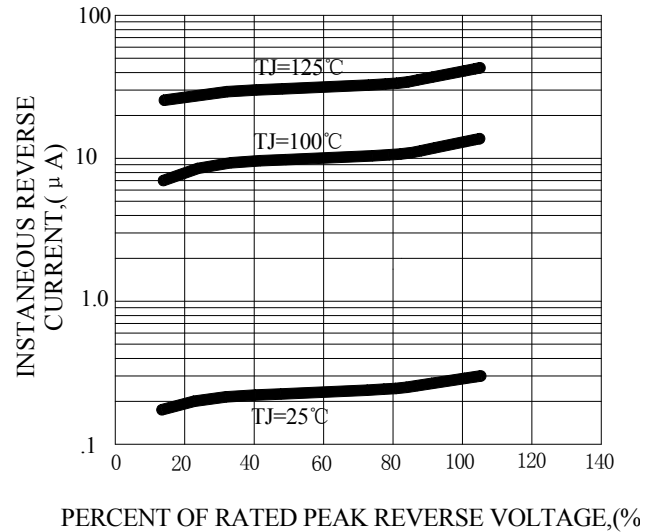


FIG.5-TYPICAL JUNCTION CAPACITANCE

