



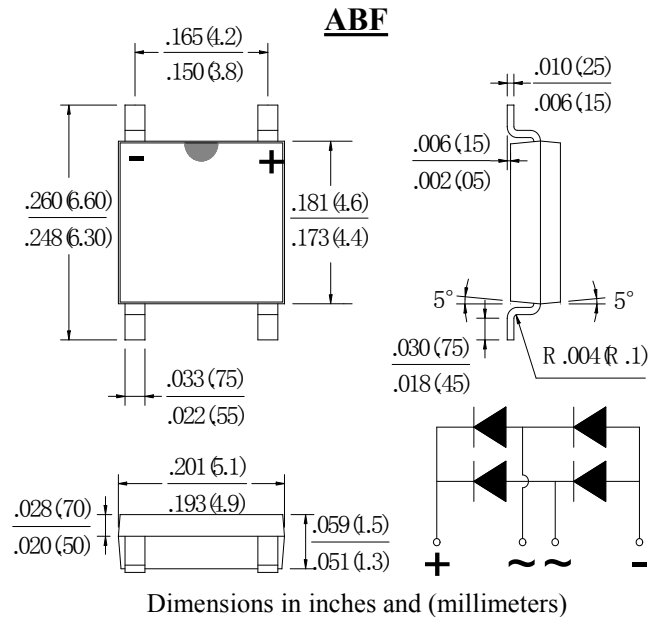
PINGWEI ENTERPRISE

ABF1502 THRU ABF1510**SINGLE PHASE 1.5AMPS. 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.

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: 0.09g (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	ABF 1502	ABF 1504	ABF 1506	ABF 1508	ABF 1510	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 @ $T_A=40^\circ\text{C}$	$I_{F(AV)}$	1.5					A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	40					A
Maximum Instantaneous @ $I_F=1.5\text{A DC}$ Forward Voltage @ $I_F=0.75\text{A DC}$	V_F	1.1 0.95					V
Maximum DC Reverse Current @ $T_J=25^\circ\text{C}$ at rated DC blocking voltage @ $T_J=125^\circ\text{C}$	I_R	5.0 100.0					μA
I^2t Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	6.6					A^2Sec
Typical Junction Capacitance Per Leg (Note1)	C_J	18					pF
Typical Thermal Resistance (Note2)	R_{JC} R_{JA}	20 65					$^\circ\text{C}/\text{W}$
Storage Temperature	T_{STG}	-55 to +150					$^\circ\text{C}$
Operating Junction Temperature	T_J	-55 to +150					$^\circ\text{C}$

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 15x15 mm copper pad per pin with heatsink

RATING AND CHARACTERISTIC CURVES (ABF1502 THRU ABF1510)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

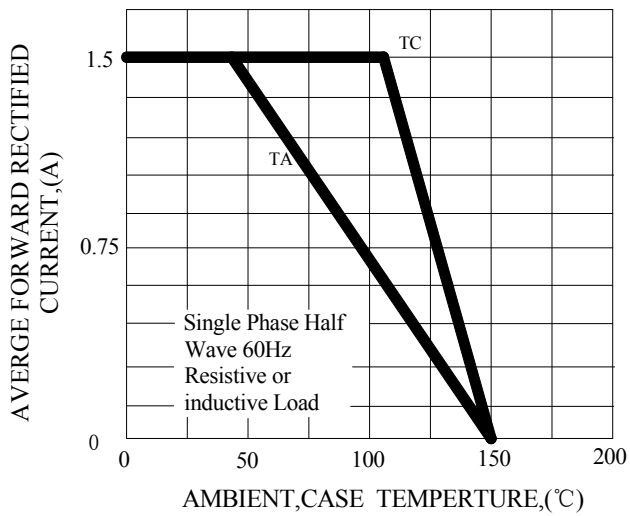


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

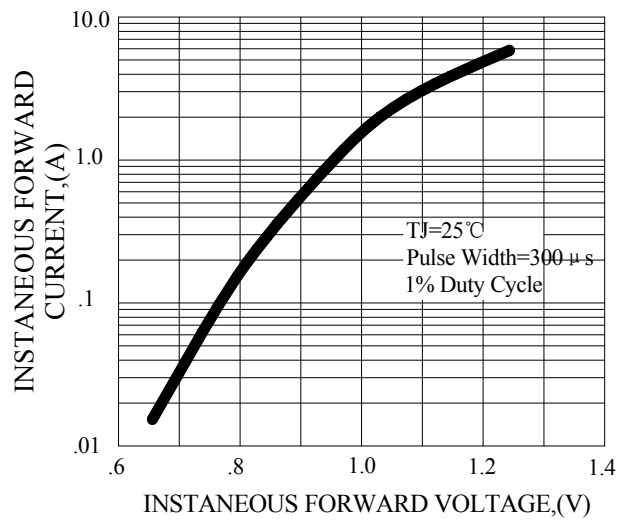


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

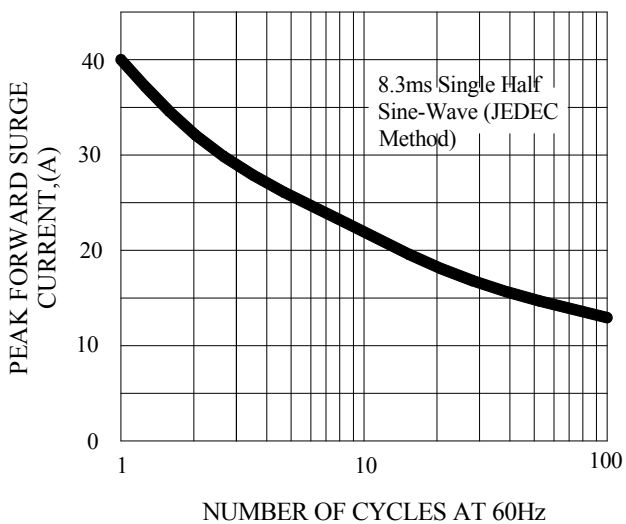


FIG.4-TYPICAL REVERSE CHARACTERISTICS

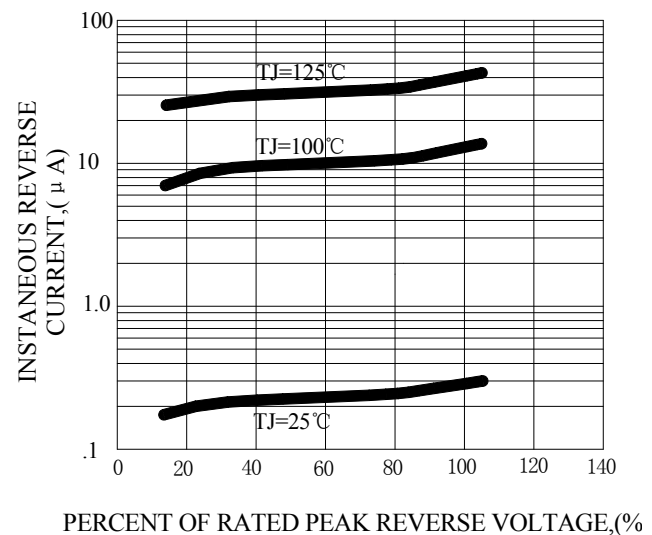


FIG.5-TYPICAL JUNCTION CAPACITANCE

