PINGWEI ENTERPRISE

ABS202 THRU ABS210

SINGLE PHASE2.0AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS

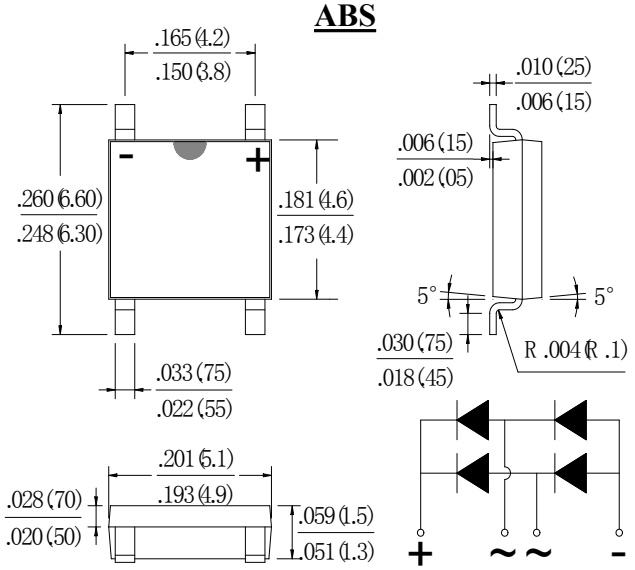
FEATURE

- 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℃/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)

ABS



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz,resistive or inductive load.
For capacitive load, derate current by 20%

Type Number	SYMBOL	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℃	$I_{F(AV)}$	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°C at rated DC blocking voltage @T_J=125°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					°C /W
Storage Temperature	T_{STG}	-55 to +150					°C
Operating Junction Temperature	T_J	-55 to +150					°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

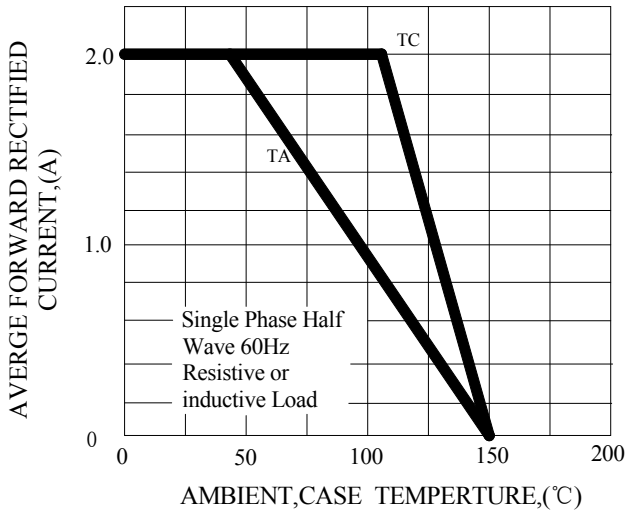


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

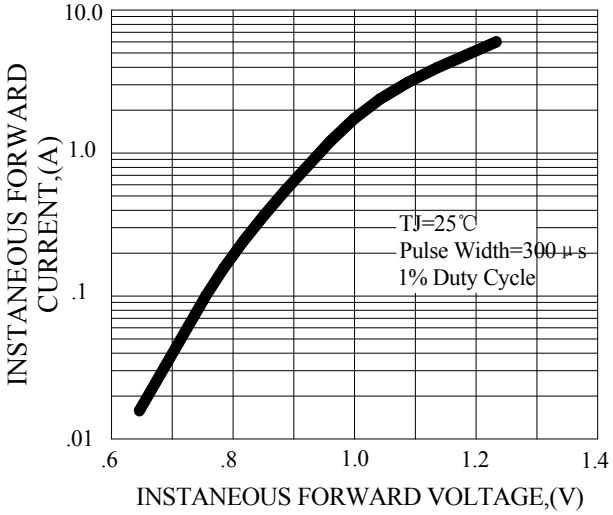


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

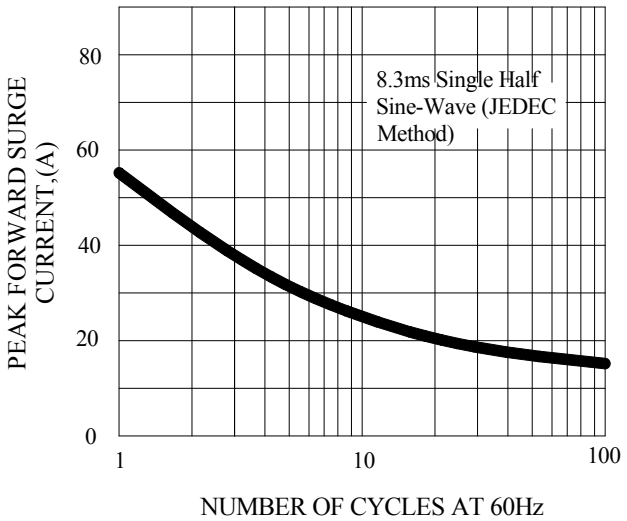


FIG.4-TYPICAL REVERSE CHARACTERISTICS

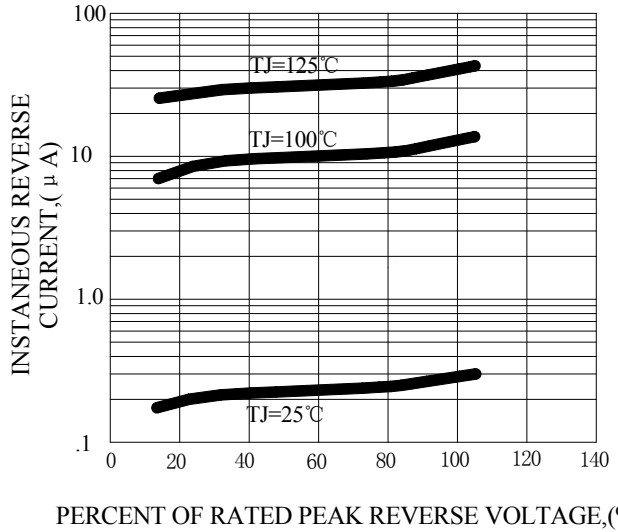
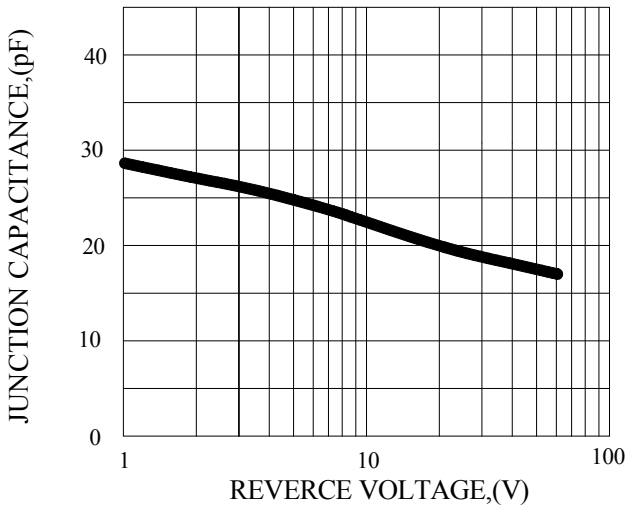



FIG.5-TYPIAL JUNCTION CAPAOTANCE