ABS202 THRU ABS210

SEMICONDUCTOR

SURFACE MOUNT
GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage: 200 to 1000 Volts
Forward Current: 2. 0Amps

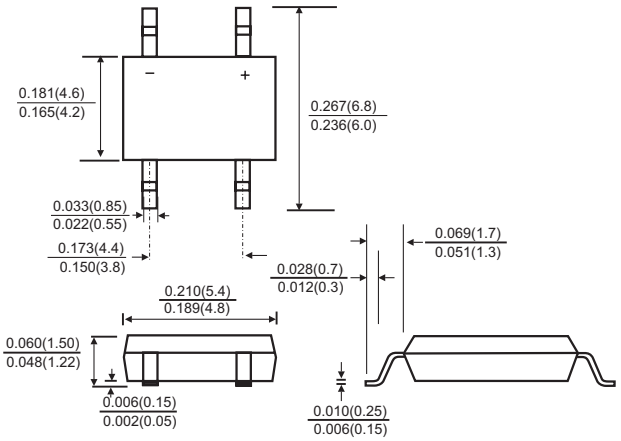
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- Rating to 1000V PRV
- Ideal for printed circuit board
  High temperature soldering guaranteed:260°C/10 seconds at terminals
  Component in accordance to RoHS 2011/65/EU

MECHANICAL DATA

- Case: ABS molded plastic body
- Epoxy: UL94V-0 rate flame retardant
- Terminals: Plated leads solderable per MIL-STD-750,method 2026
- Mounting Position: Any

ABS



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25°C ambient temperature unless otherwise specified. Single phase ,half wave ,60Hz,resistive or inductive load. For capacitive load,derate current by 20%.)

		Symbols	ABS202	ABS204	ABS206	ABS208	ABS210	Units
Maximum Recurrent 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		$I_{(AV)}$	2.0					Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	50					Amps
Maximum Instantaneous Forward Voltage at 2.0 A DC		V_F	1.2					Volts
Maximum DC Reverse Current at rated DC blocking voltage	T_A=25°C	I_R	10					μA
	T_A=125°C		500					
Typical junction capacitance(Note1)		C_J	25					pF
Typical thermal resistence(Note 2)		$R_{\theta JA}$	62					°C/W
Operating junction and storage temperature range		T_J T_{STG}	-55 to +150					°C

Note:1.Measured at 1MHz and applied reverse voltage of 4.0 Volts.

2. Thermal resistance junction to ambient.

RATINGS AND CHARACTERISTIC CURVES ABS202 THRU ABS210

FIG.1-TYPRCAL FORWARD CURRENT DERATING CURVE

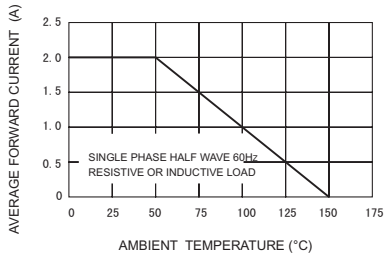


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

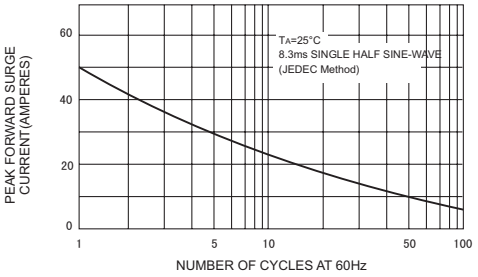


FIG3-TYPICAL JUNCTION CAPACITANCE

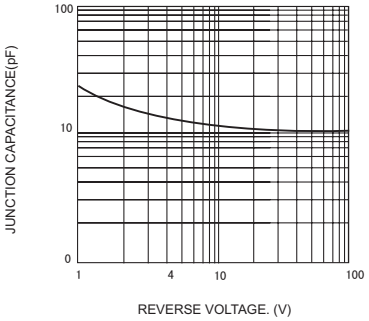


FIG4-TYPICAL FORWARD CHARACTERISTICS

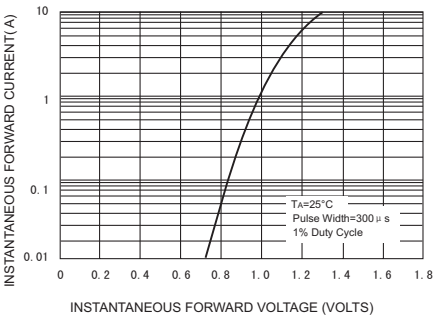
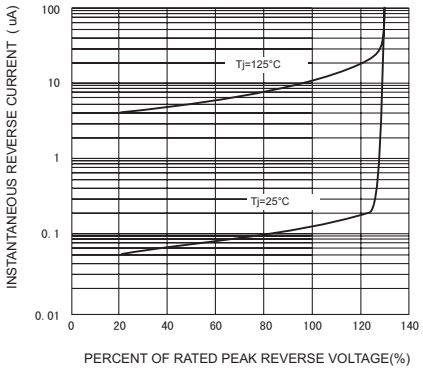



FIG.5-TYPICAL REVERSE CHARACTERISTICS