SAMYANG ELECTRONICS

ABS202 --- ABS210

SILICON BRIDGE RECTIFIERS

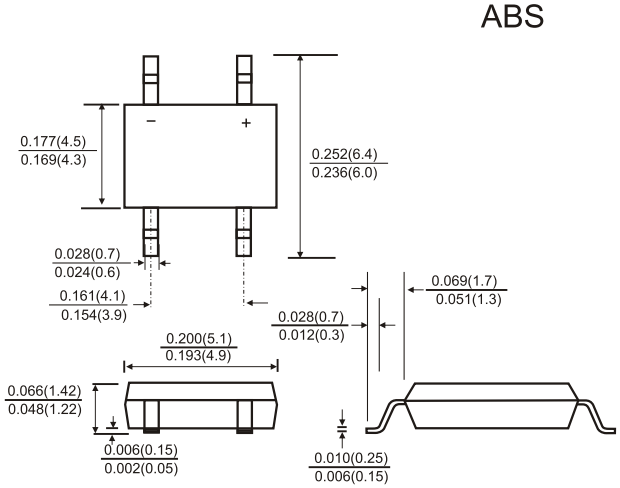
VOLTAGE RANGE: 200 --- 1000 V
CURRENT: 2.0 A

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 2002/95/EC and WEEE 2002/96/EC

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
- *Weight*: 0.0044ounce, 0.125 gram



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25℃ unless otherwise noted)

PARAMETER	SYMBOL	ABS 202	ABS 204	ABS 206	ABS 208	ABS 210	UNIT
Maximum repetitive 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	$I_{F(AV)}$	2					A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	50					A
Rating for fusing (t<8.3ms)	I^2t	15					A^2s
Maximum instantaneous forward voltage (Note 1) I_F= 2 A	V_F	1.2					V
Maximum DC reverse current T_J=25 ℃ at rated DC blocking voltage T_J=125℃	I_R	10 500					μA
Typical thermal resistance	$R_{\theta jL}$ $R_{\theta jA}$	8 25					°C/W
Operating junction temperature range	T_J	- 55 to +150					°C
Storage temperature range	T_{STG}	- 55 to +150					°C

Note 1: Pulse Test with PW=300μs,1% Duty Cycle

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

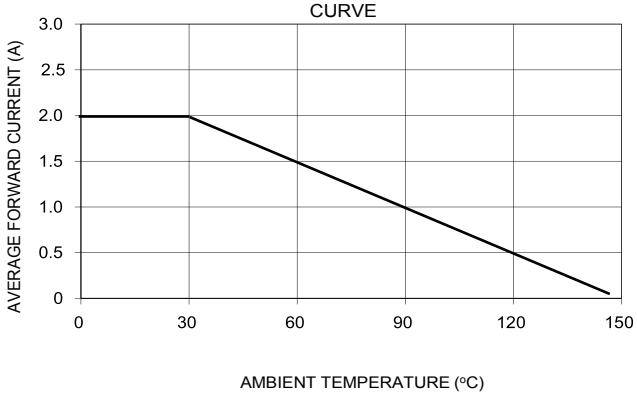


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

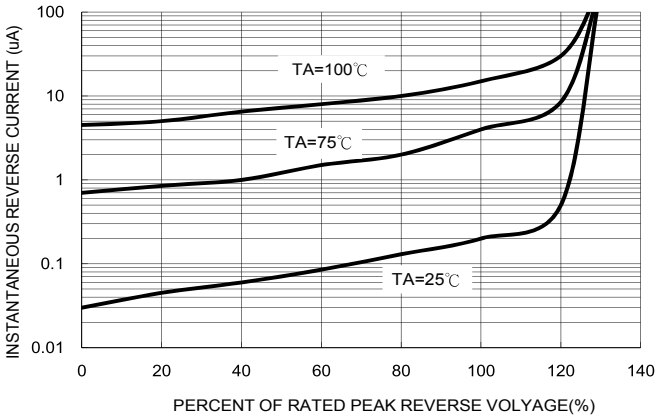


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

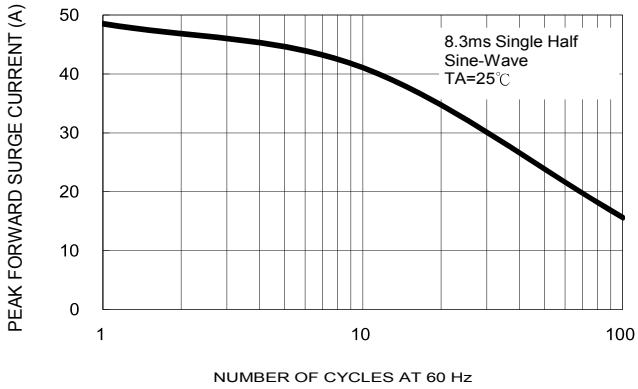


FIG. 4 TYPICAL JUNCTION CAPACITANCE

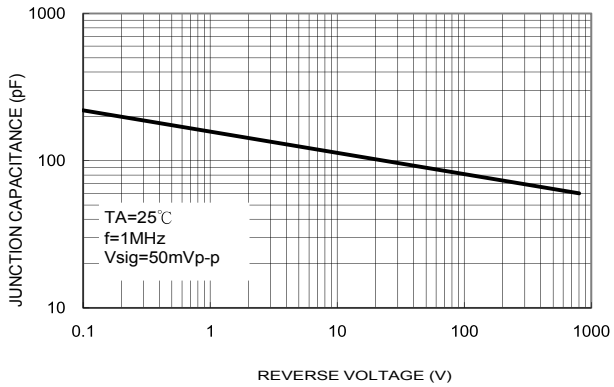


FIG. 5 TYPICAL FORWARD CHARACTERISTIC

