

ABS202-ABS210

Single Phase 2.0 AMP. Glass Passivated Bridge Rectifiers



FEATURES

- ✧ Glass passivated junction
- ✧ Ideal for printed circuit board
- ✧ Reliable low cost construction utilizing molded plastic technique
- ✧ High temperature soldering guaranteed:
260°C / 10 seconds / 0.375" (9.5mm)
lead length at 5 lbs., (2.3 kg) tension
- ✧ Small size, simple installation
Pure tin plated terminal , Lead free. Leads
solderable per MIL-STD-202, Method 208
- ✧ High surge current capability

MECHANICAL DATA

- ✧ Case: Molded plastic body
- ✧ Mounting position : as Marking
- ✧ Weight: 0.12 grams

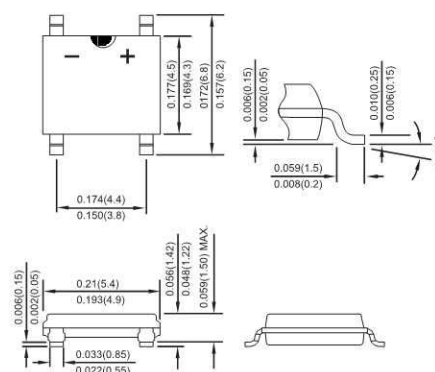


VOLTAGE RANGE

200 to 1000 Volts

CURRENT

2.0 Ampere



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ 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 ($t < 8.3\text{ms}$)	I^2t	15					A ² s
Maximum instantaneous forward voltage (Note 1) $I_F = 2\text{ A}$	V_F	1.2					V
Maximum DC reverse current at rated DC blocking voltage	I_R	5 150					μA
Typical thermal resistance	$R_{\theta JL}$ $R_{\theta JA}$	8 25					$^\circ\text{C/W}$
Operating junction temperature range	T_J	- 55 to +150					$^\circ\text{C}$
Storage temperature range	T_{STG}	- 55 to +150					$^\circ\text{C}$

Note 1: Pulse Test with $PW=300\mu\text{s}$, 1% Duty Cycle

RATINGS AND CHARACTERISTIC CURVES (ABS202 THRU ABS210)

FIG.1 FORWARD CURRENT DERATING CURVE

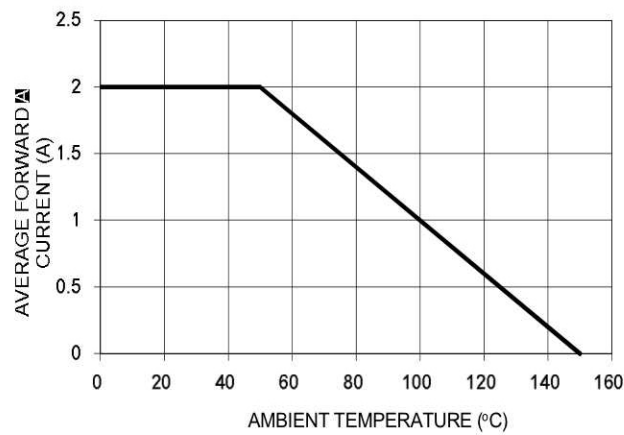


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

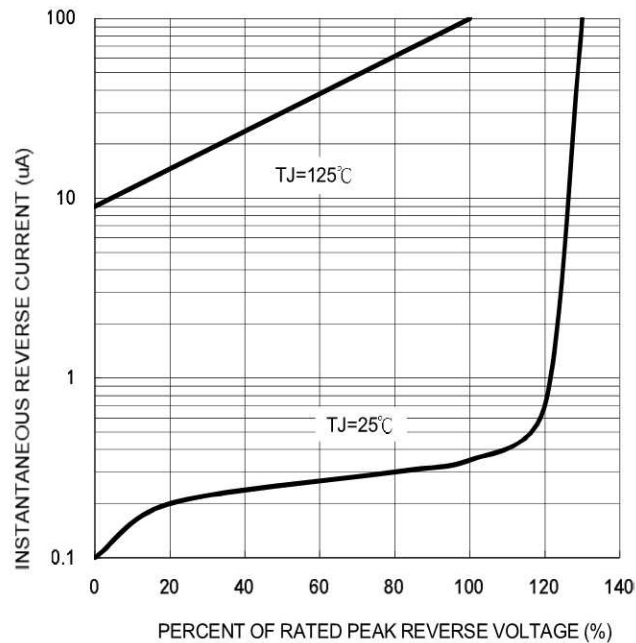


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

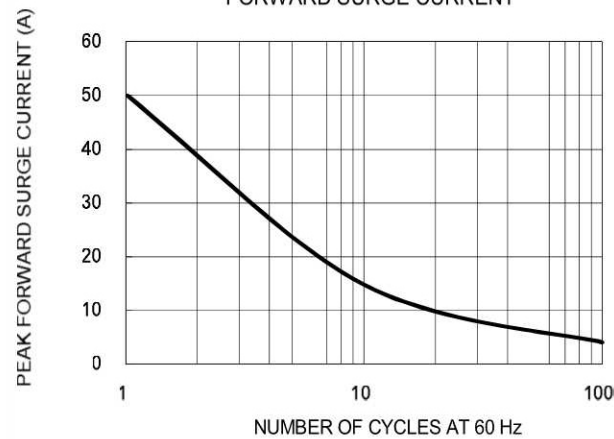


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

