

HABS202-HABS210

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

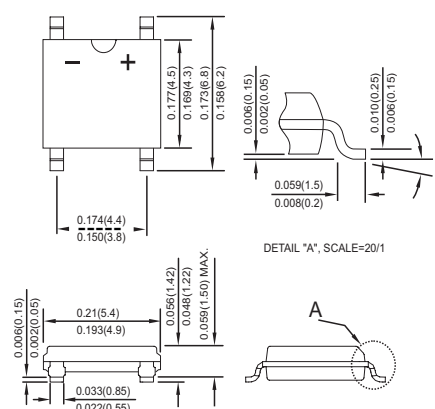
- ✧ Case: Molded plastic body
- ✧ Mounting position : as Marking
- ✧ Weight: 0.12 grams

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	HABS 202	HABS 204	HABS 206	HABS 208	HABS 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}	60					A
Rating for fusing (t<8.3ms)	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 $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	I_R	10 500					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 μ s, 1% Duty Cycle

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RATINGS AND CHARACTERISTIC CURVES (HABS202 THRU HABS210)

FIG. 1 MAXIMUM FORWARD CURRENT DERATING CURVE

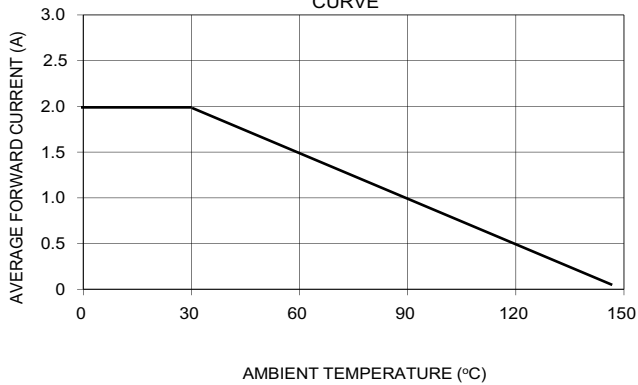


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

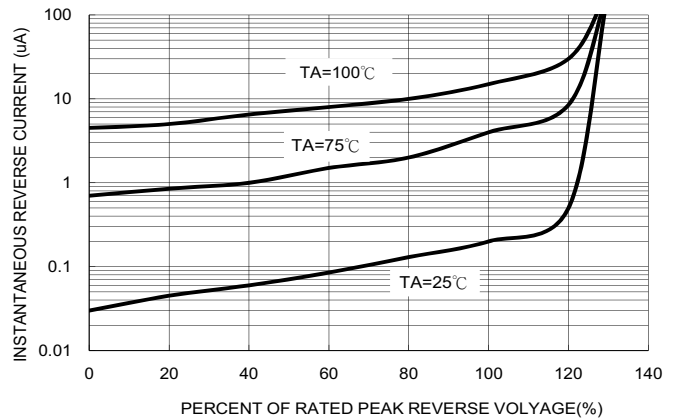


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

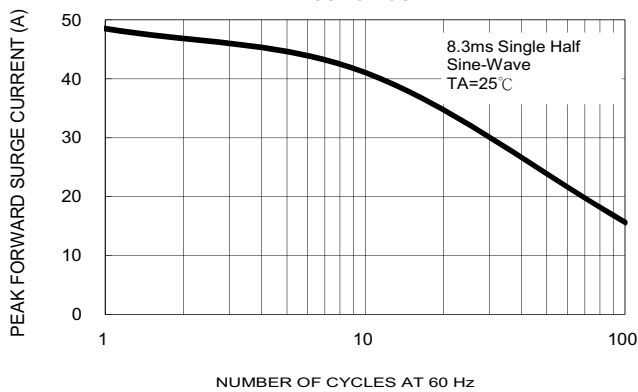


FIG. 4 TYPICAL JUNCTION CAPACITANCE

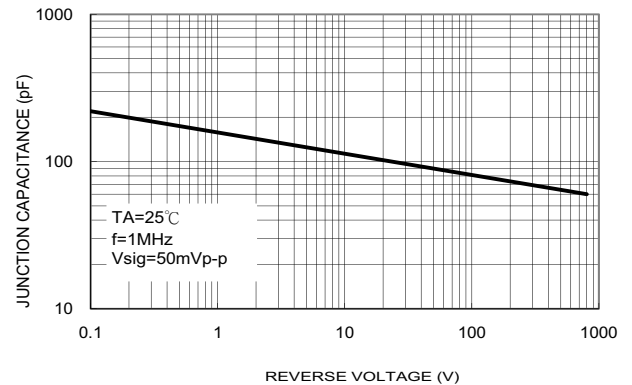


FIG. 5 TYPICAL FORWARD CHARACTERISTIC

