



ABS22L THRU ABS210L

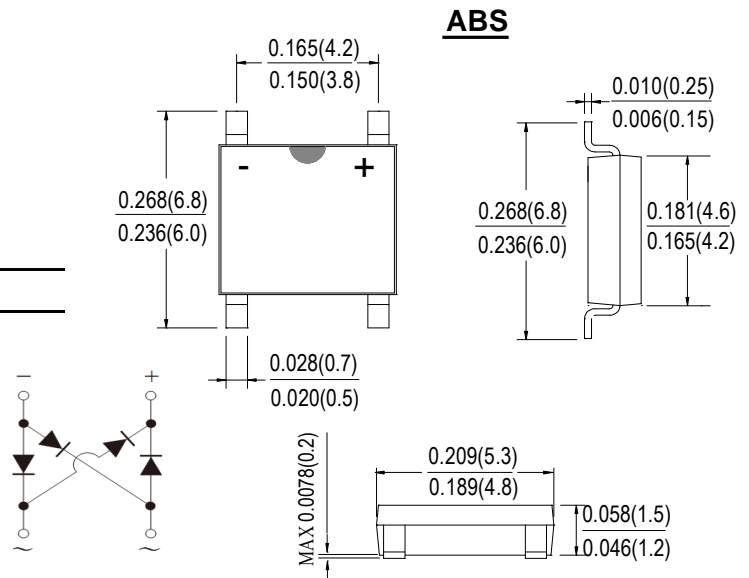
SINGLE PHASE 2.0AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Designed for surface mount application
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: SOPA-4, molded plastic ABS
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number



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%.

TYPE NUMBER	SYMBOL	ABS22L	ABS24L	ABS26L	ABS28L	ABS210L	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	200	400	600	800	1000	V
Working Peak Reverse Voltage	V_{RWM}						
DC Blocking Voltage	V_{DC}						
RMS Reverse Voltage	V_{RMS}	140	280	420	560	700	V
Average Rectified Output Current (Note:1) @ $T_c = 100^\circ\text{C}$	$I_F(AV)$	2.0					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave @ $T_J = 25^\circ\text{C}$ Superimposed On Rated Load (JEDEC Method)	I_{FSM}	70					A
Non-Repetitive Peak Forward Surge Current 1.0ms Single half sine-wave @ $T_J = 125^\circ\text{C}$ Superimposed On Rated Load (JEDEC Method)	I_{FSM}	56					A
10000 times of the wave surge current (time width 1ms, time interval 3s)	I_{FSM}	140					A
I^2t Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	112					A
Forward Voltage per element @ $I_F = 2.0\text{A}$	V_{FM}	49					A
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 125^\circ\text{C}$	I_R	20.335					A^2s
Typical Junction Capacitance (Note2)	C_J	1.0					V
Typical Thermal Resistance	$R_{\theta JA}$	5.0					μA
Operating and Storage Temperature Range	T_J, T_{STG}	100					μA
	$R_{\theta JL}$	25					$^\circ\text{C/W}$
	T_J, T_{STG}	-55to+150					$^\circ\text{C}$

Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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FIG.1 FORWARD CURRENT DERATING CURVE

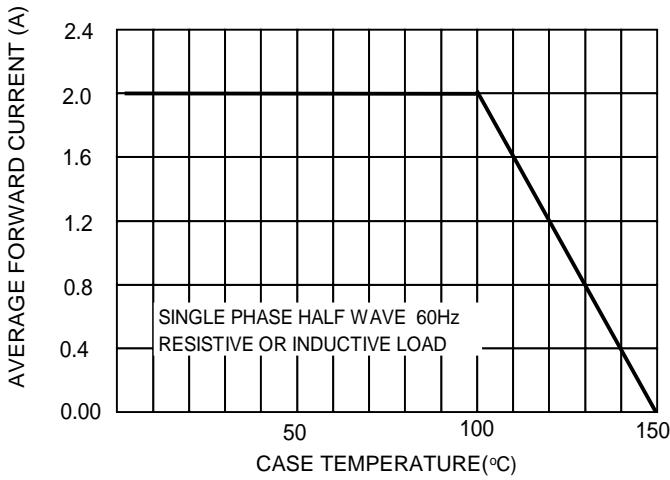


FIG.2 TYPICAL FORWARD CHARACTERISTICS

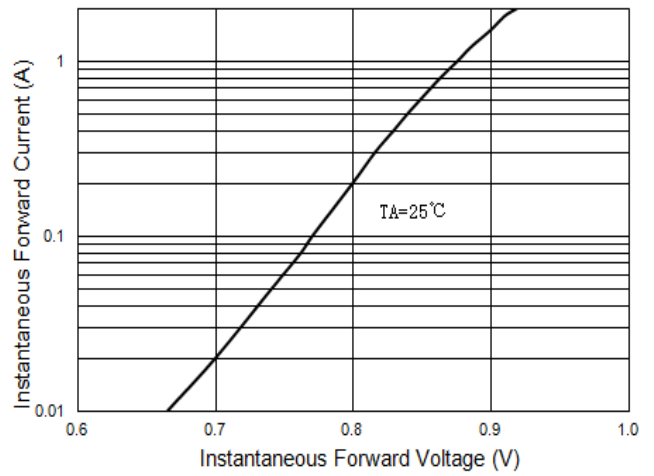


FIG.3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

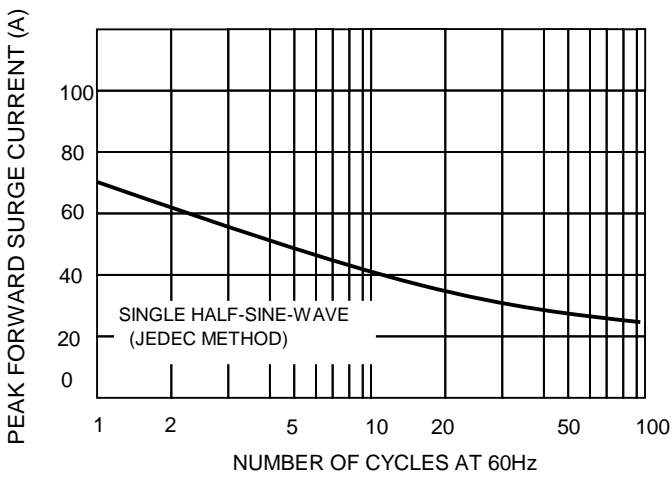


Fig. 4 Typical Reverse Characteristics

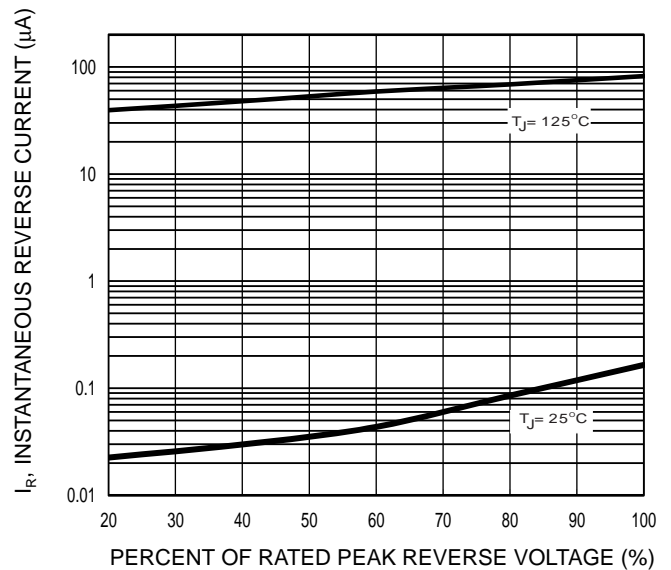
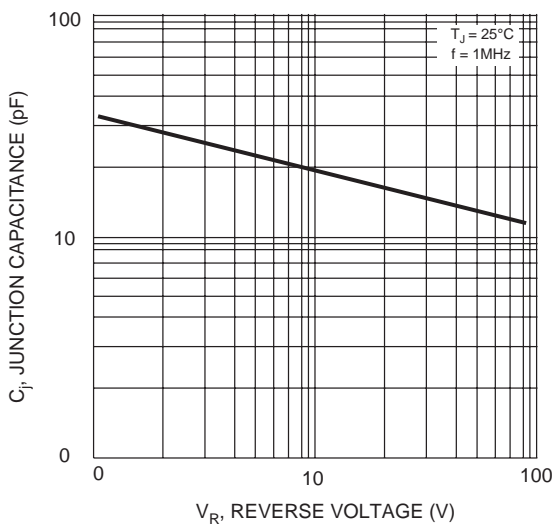
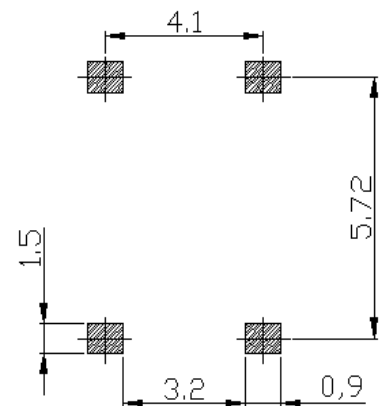


Fig. 5 Typical Junction Capacitance



ABS PAD LAYOUT





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