

# ABS22 THRU ABS210

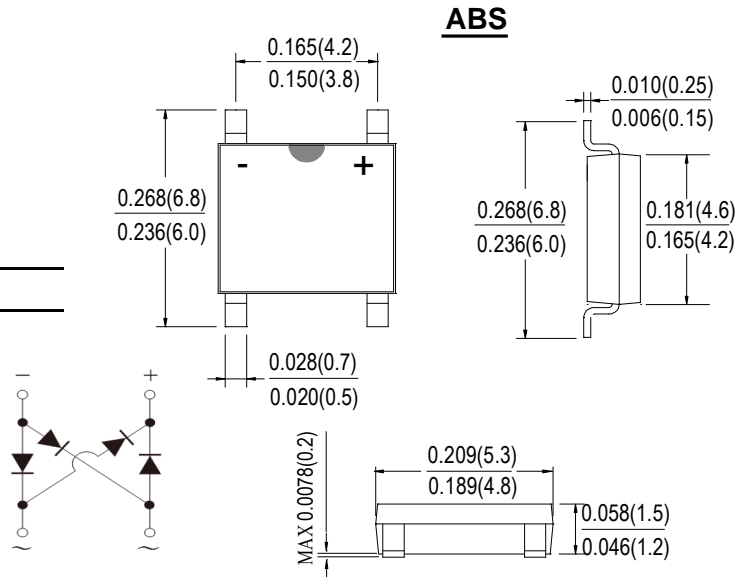
SINGLE PHASE 2.0AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

## 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	ABS22	ABS24	ABS26	ABS28	ABS210	UNITS	
Peak Repetitive Reverse Voltage	$V_{RRM}$							
Working Peak Reverse Voltage	$V_{RWM}$	200	400	600	800	1000	V	
DC Blocking Voltage	$V_{DC}$							
RMS Reverse Voltage	$V_{RMS}$	140	280	420	560	700	V	
Average Rectified Output Current @ $T_c = 100^\circ C$	$I_F(AV)$	2.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	60						A
Rating for fusing ( $t < 8.3ms$ )	$I^2 t$	14.94						$A^2 s$
Forward Voltage per element @ $I_F = 1.0A$ @ $I_F = 2.0A$	$V_{FM}$	0.95 1.0						V
Peak Reverse Current @ $T_A = 25^\circ C$ At Rated DC Blocking Voltage @ $T_A = 125^\circ C$	$I_R$	5.0 200						$\mu A$
Typical Thermal Resistance per leg	$R_{\theta JA}$	62.5						$^\circ C/W$
	$R_{\theta JL}$	25						
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55to+150						$^\circ C$

FIG.1 FORWARD CURRENT DERATING CURVE

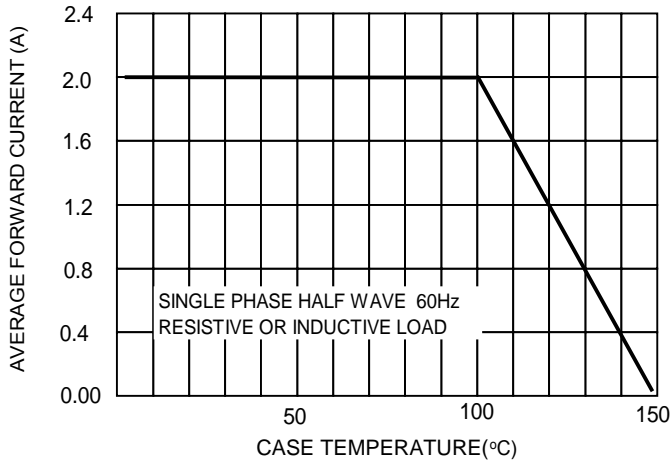


FIG.2 TYPICAL FORWARD CHARACTERISTICS

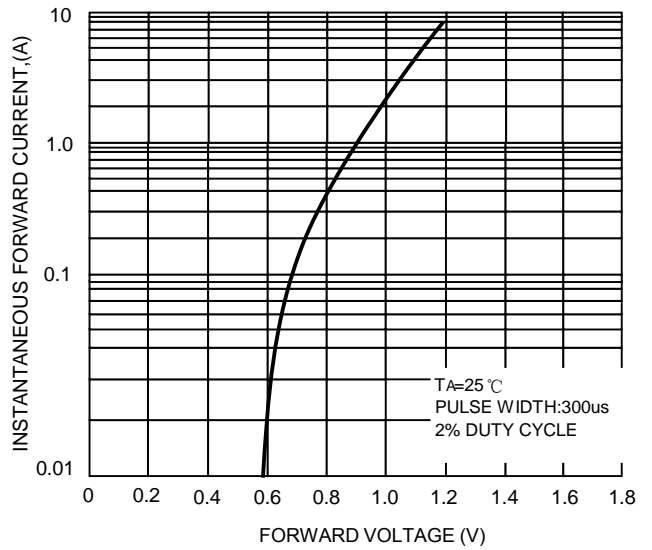


FIG.3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

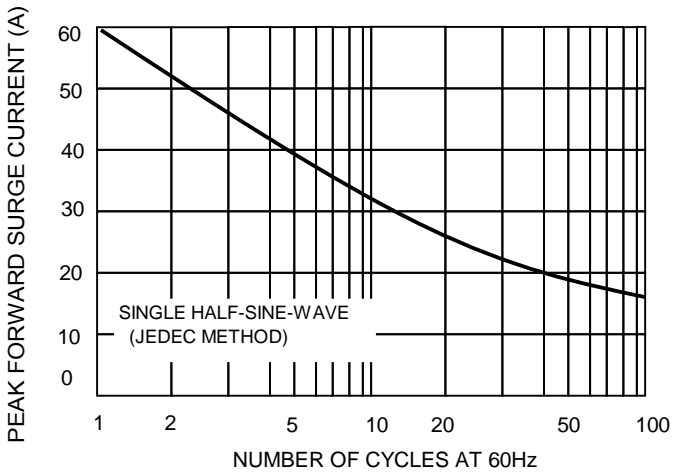
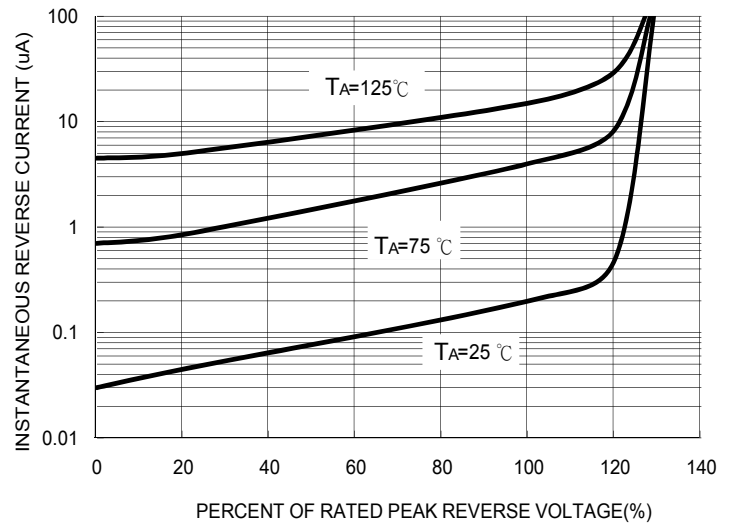
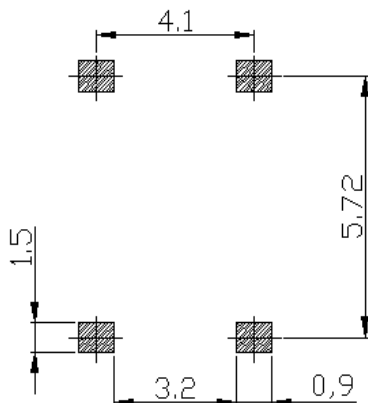


FIG. 4 TYPICAL REVERSE CHARACTERISTICS



### ABS PAD LAYOUT



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