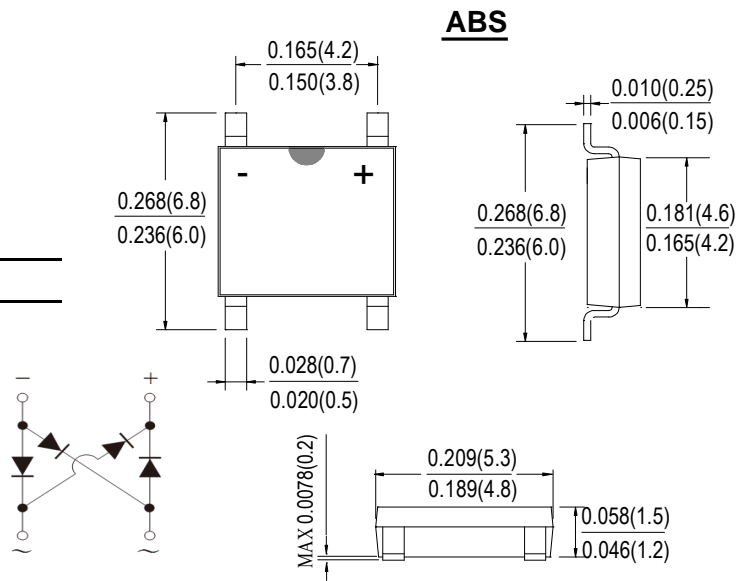


### Features

- 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	ABS2	ABS4	ABS6	ABS8	ABS10	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$V_{RRM}$						
	$V_{RWM}$	200	400	600	800	1000	V
	$V_{DC}$						
RMS Reverse Voltage	$V_{RMS}$	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@T <sub>c</sub> =100°C	IF(AV)			0.5 0.8			A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>			30			A
Rating for fusing (t<8.3ms)	I <sup>2</sup> t			3.74			A <sup>2</sup> s
Forward Voltage per element @IF=0.5A @IF=0.8A	$V_{FM}$			0.95			V
				1.0			
Peak Reverse Current @T <sub>A</sub> =25°C At Rated DC Blocking Voltage @T <sub>A</sub> =125°C	I <sub>R</sub>			5.0			uA
				200			
Typical Thermal Resistance per leg	R <sub>θJA</sub>			62.5			°C/W
	R <sub>θJL</sub>			25			
Operating and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>			-55to+150			°C

Note:1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

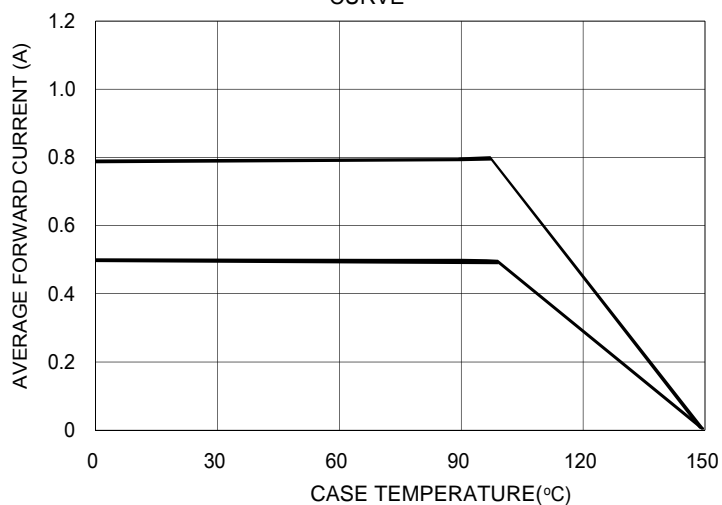


FIG. 2 TYPICAL FORWARD CHARACTERISTIC

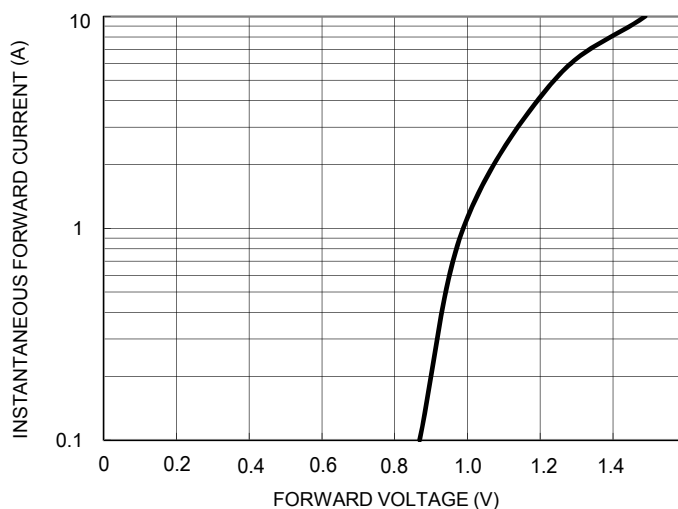


FIG.3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

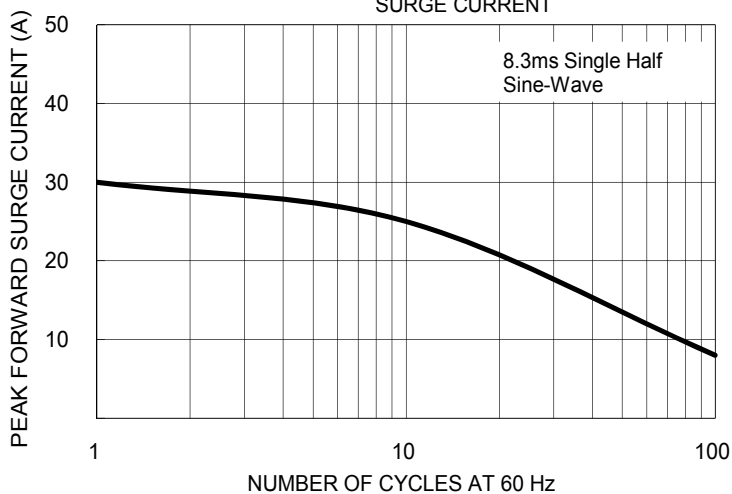
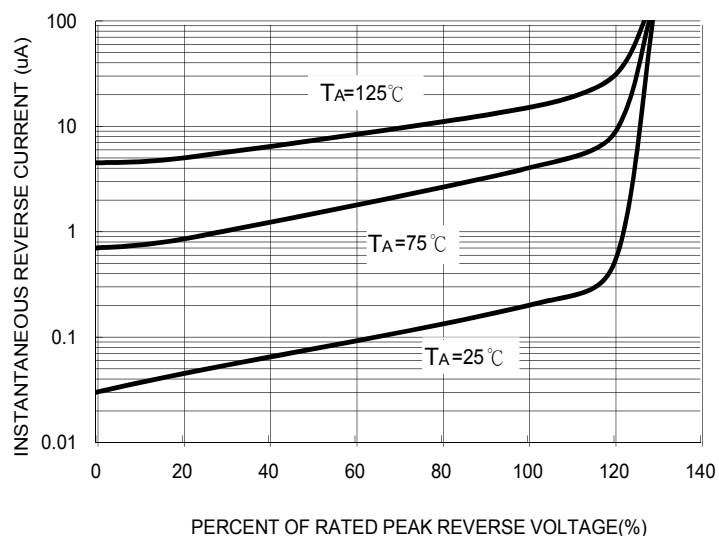
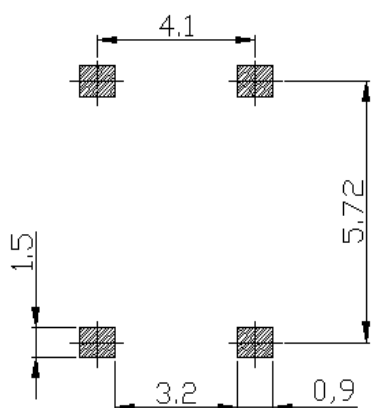


FIG. 4 TYPICAL REVERSE CHARACTERISTICS



## ABS PAD LAYOUT



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