



ABS2-ABS10 SURFACE MOUNT BRIDGE RECTIFIERS

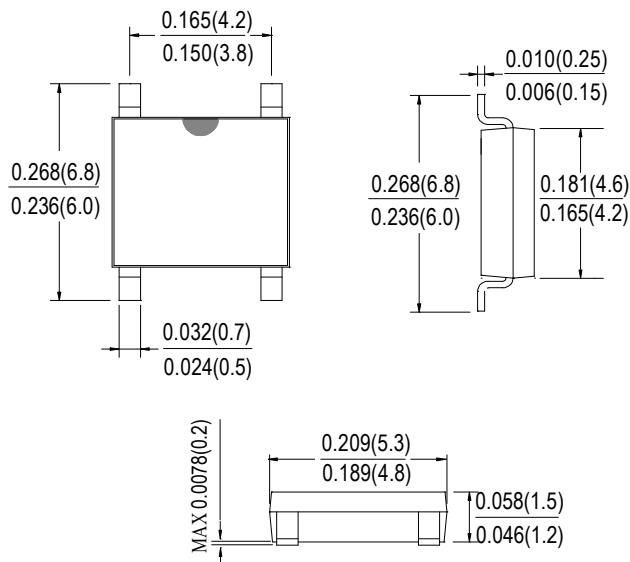
Features

- 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-O
- UL Recognized File # E476623

Mechanical Data

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

ABS



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}	200	400	600	800	1000	V
	V _{RWM}						
	V _{DC}						
RMS Reverse Voltage	V _{RMS}	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@T _c =100℃	I _{F(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 _{FSM}	30					A
Rating for fusing (t<8.3ms)	I ² t	3.74					A ² s
Forward Voltage per element @I _F =0.5A @I _F =0.8A	V _{FM}	0.95 1.0					V
Peak Reverse Current @T _A =25℃ At Rated DC Blocking Voltage @T _A =125℃	I _R	5.0 200					uA
Typical Thermal Resistance per leg	R _{θJA}	62.5					℃/W
	R _{θJL}	25					
Operating and Storage Temperature Range	T _J ,T _{STG}	-55to+150					℃

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



ABS2-ABS10

SURFACE MOUNT BRIDGE RECTIFIERS

Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

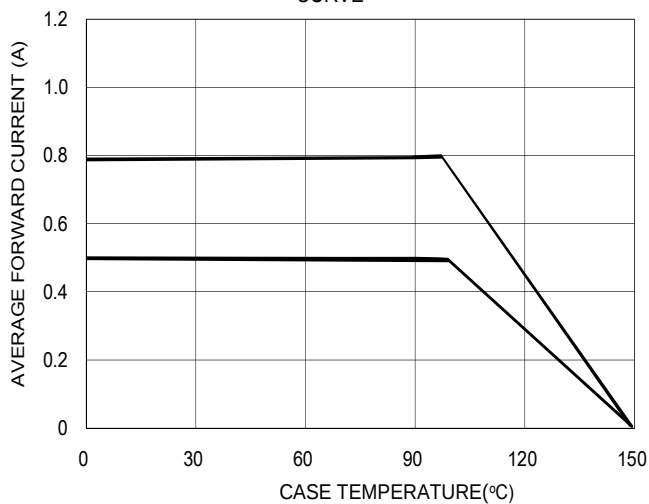


FIG. 2 TYPICAL FORWARD CHARACTERISTIC

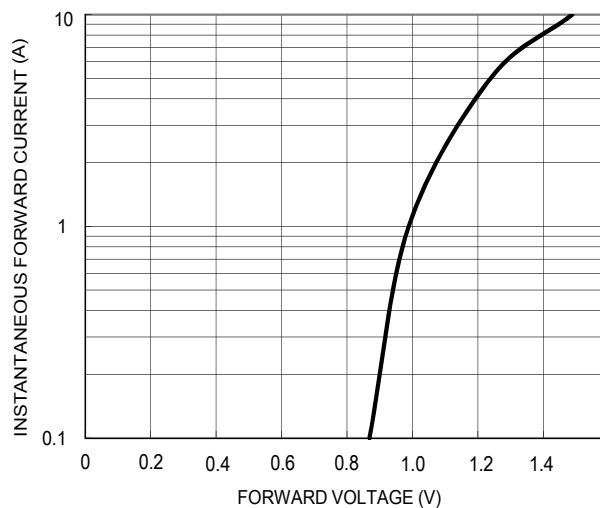


FIG.3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

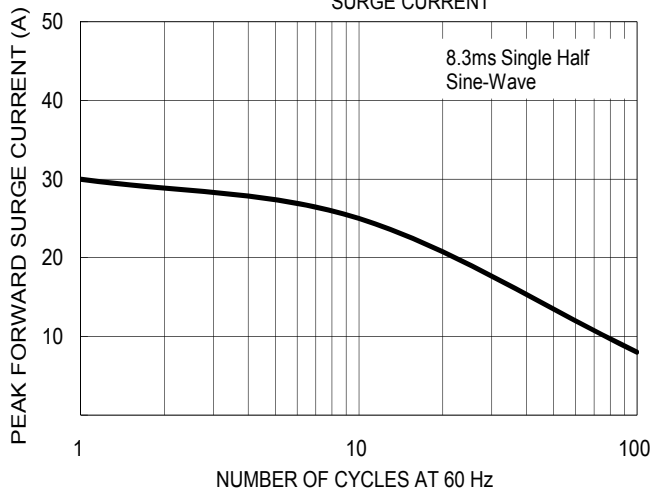
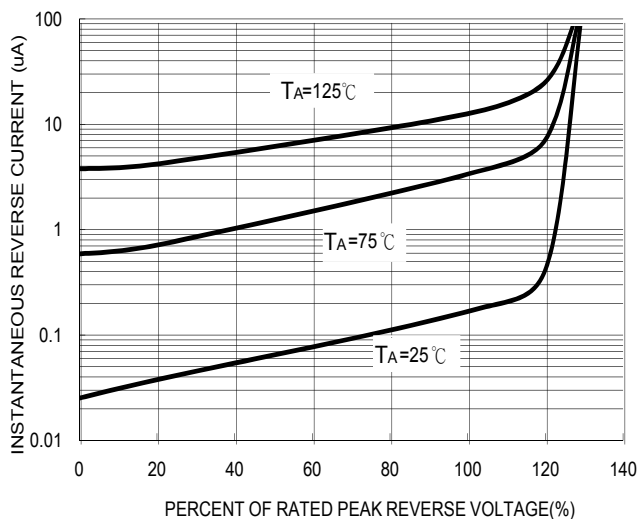


FIG. 4 TYPICAL REVERSE CHARACTERISTICS



ABS PAD LAYOUT

