ABS32-ABS310

Single Phase 3.0AMP Surface Mount Glass Passivated Bridge Rectifier

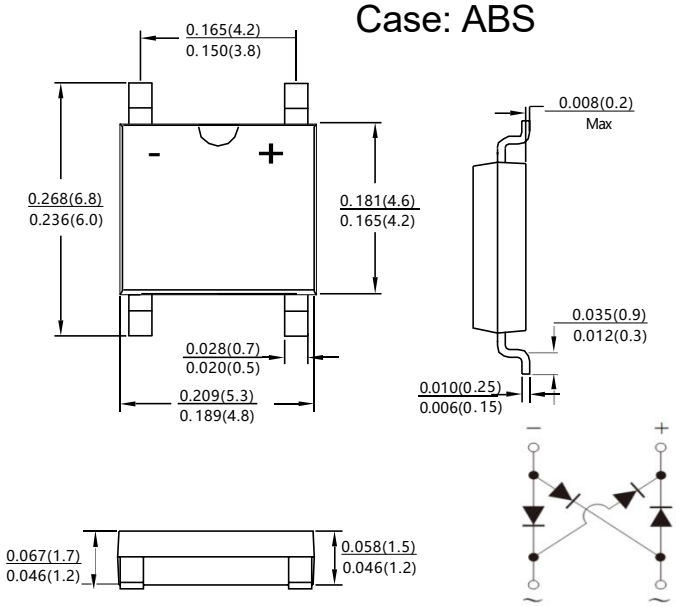
Features

- 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
- Solder Dip: 260℃/10Sec whole body

Case: ABS



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified.
Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	ABS32	ABS34	ABS36	ABS38	ABS310	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_{DC}	200	400	600	800	1000	V
RMS Reverse Voltage	V_{RMS}	140	280	420	560	700	V
Average Rectified Output Current @Tc=100℃	IF(AV)	3.0					A
Non-Repetitive Peak Forward Surge @Tj=25℃ Current 8.3ms Single half sine-wave Superimposed On Rated Load (JEDEC Method)	I_{FSM}	70					A
Rating for fusing (t<8.3ms)	I^2t	14.94					A^2s
Forward Voltage per element @IF=2.0A	V_{FM}	1.0					V
Peak Reverse Current @T_A =25℃ At Rated DC Blocking Voltage @T_A =125 ℃	I_R	5.0 200					uA
Operating and Storage Temperature Range	T_J,T_{STG}	-55to+150					℃

Note:1. Mounted on glass epoxy PC board with 1.3mm^2 solder pad.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

Fig. 1 Output Current Derating Curve

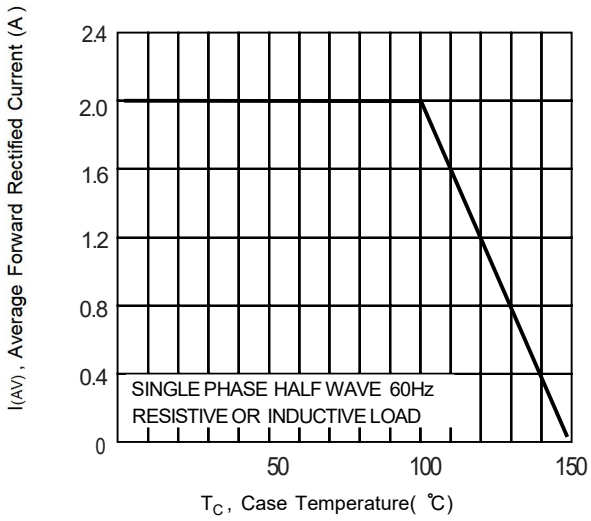


Fig. 2 Typical Forward Characteristics

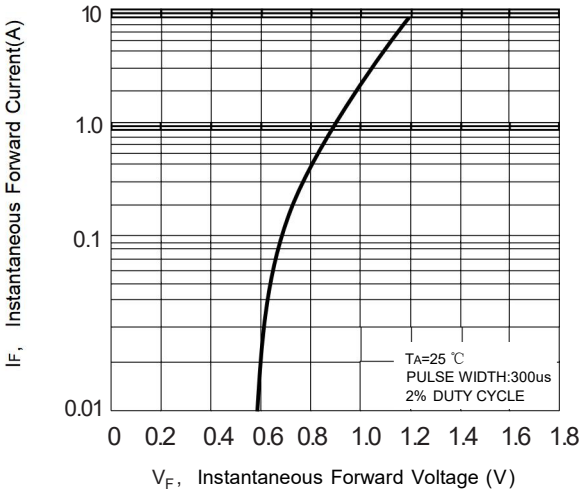


Fig.3 Maximum Peak Forward Surge Current

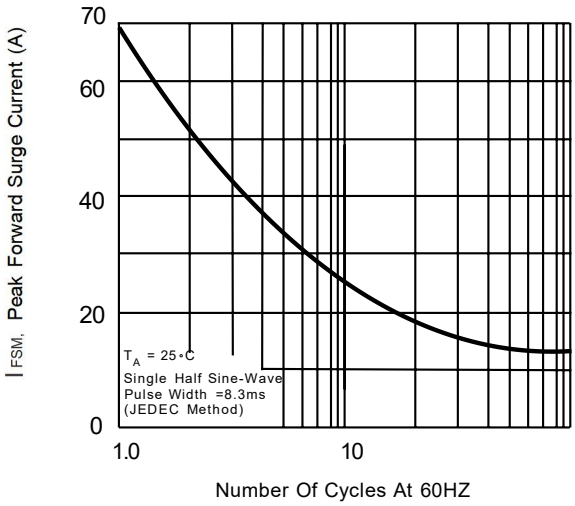


Fig.4 Typical Reverse Characteristics

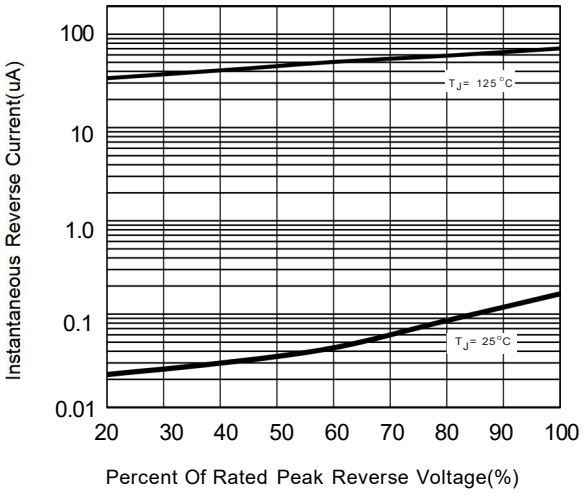


Fig.5 Mounting Pad Layout

