

ABS2U THRU ABS10U

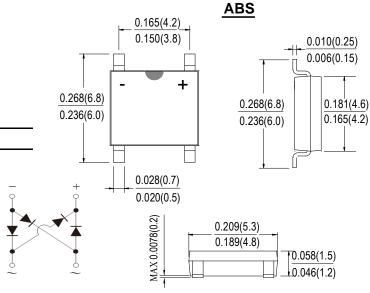
SINGLE PHASE 1.0AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

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 | ABS2U | ABS4U | ABS6U | ABS8U | ABS10U | UNITS |
|---|---------|-------------|-------|-------|-------|--------|------------------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | VRRM | 200 | 400 | 600 | 800 | 1000 | V |
| | VRWM | | | | | | |
| | VDC | | | | | | |
| RMS Reverse Voltage | VRMS | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectified Output Current (Note:1)@Tc =100 ℃ | IF(AV) | 1.0 | | | | | Α |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | Іғѕм | 35 | | | | | А |
| I ² t Rating for Fusing (t < 8.3ms) | l²t | 5.08 | | | | | A ² s |
| Forward Voltage per element @IF=0.5A @IF=1.0A | VFM | 0.95 1.0 | | | | | V |
| Peak Reverse Current @TJ =25 ℃ At Rated DC Blocking Voltage @TJ =125 ℃ | lr | 5.0 100 | | | | | uA |
| Typical Junction Capacitance (Note2) | CJ | 15 | | | | | pF |
| Typical Thermal Resistance | Rеја | 62.5 | | | | | °C/W |
| | Rejl | 25 | | | | | |
| Operating and Storage Temperature Range | TJ,Tsтg | -55to+150 | | | | | $^{\circ}$ |

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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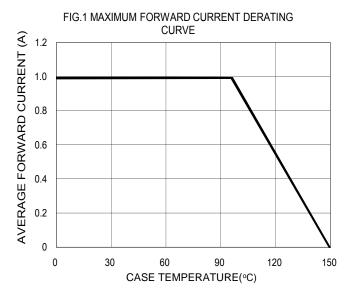


Fig. 3 Maximum Peak Forward Surge Current

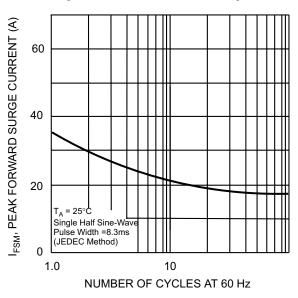


Fig. 5 Typical Junction Capacitance

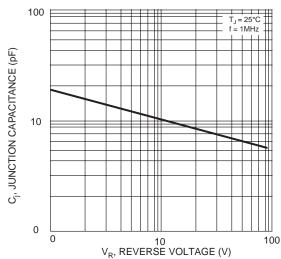


FIG. 2 TYPICAL FORWARD CHARACTERISTIC

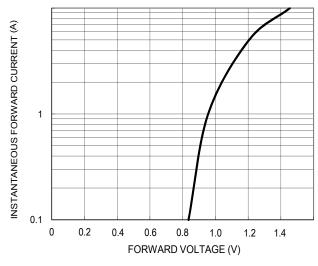
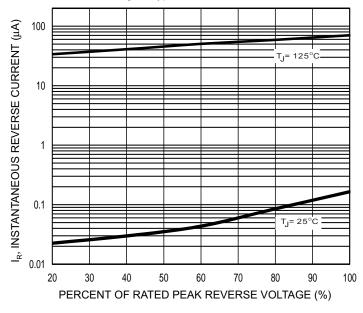
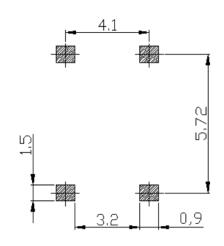


Fig. 4 Typical Reverse Characteristics



PAD LAYOUT





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