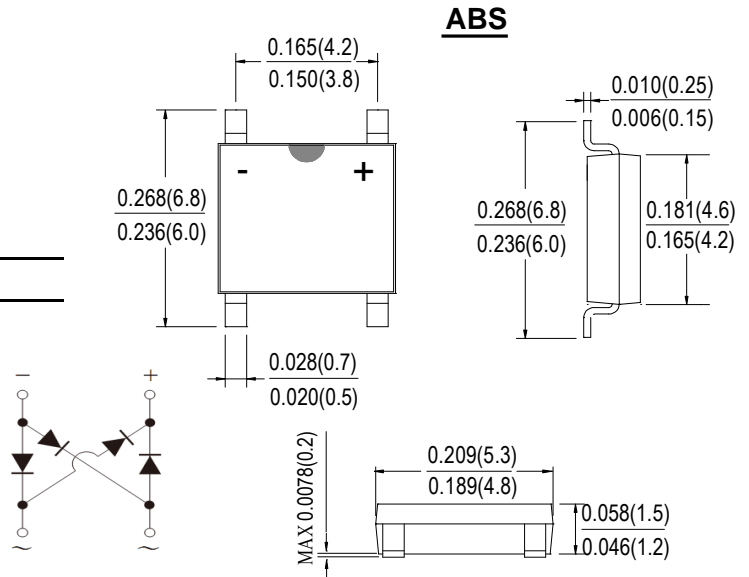


Features

- 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 | V_{RRM} | 200 | 400 | 600 | 800 | 1000 | V |
| Working Peak Reverse Voltage | V_{RWM} | | | | | | |
| DC Blocking Voltage | V_{DC} | | | | | | |
| RMS Reverse Voltage | V_{RMS} | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectified Output Current @ $T_C=100^\circ C$ | $I_F(AV)$ | 1.0 | | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 35 | | | | | A |
| Rating for fusing ($t < 8.3ms$) | $I^2 t$ | 5.08 | | | | | A ² s |
| Forward Voltage per element @ $I_F=0.5A$ @ $I_F=1.0A$ | 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 | | | | | μA |
| Typical Thermal Resistance per leg (Note 1) | $R_{\theta JA}$ | 62.5 | | | | | °C/W |
| | $R_{\theta JL}$ | 25 | | | | | |
| Operating and Storage Temperature Range | T_J, T_{STG} | -55to+150 | | | | | °C |

Note:1 Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

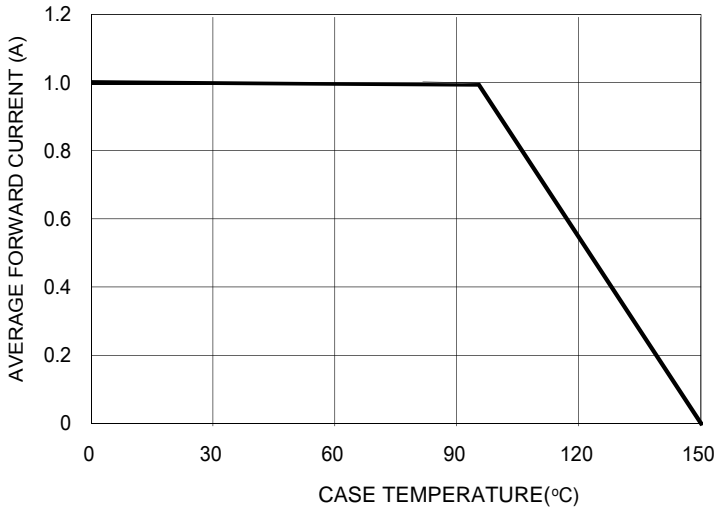


FIG. 2 TYPICAL FORWARD CHARACTERISTIC

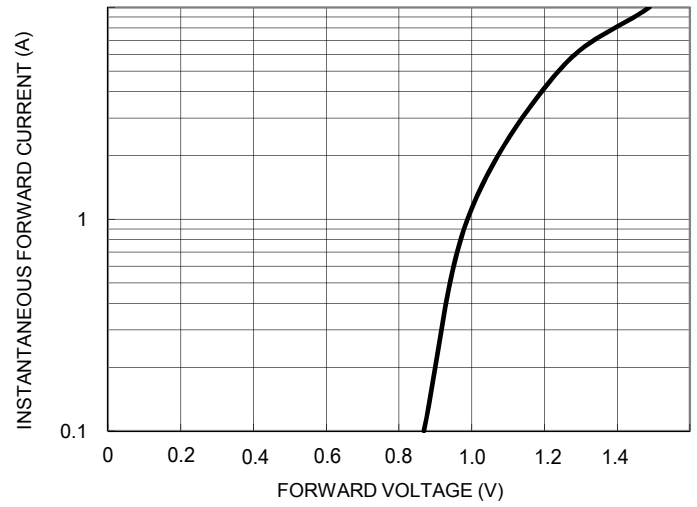


FIG.3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

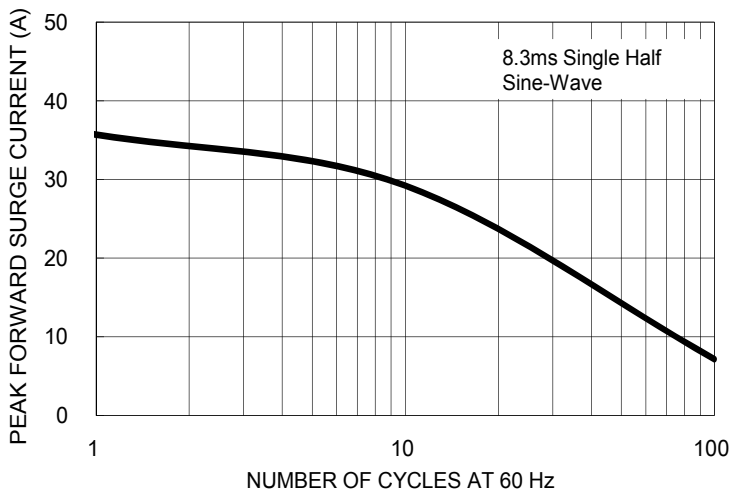
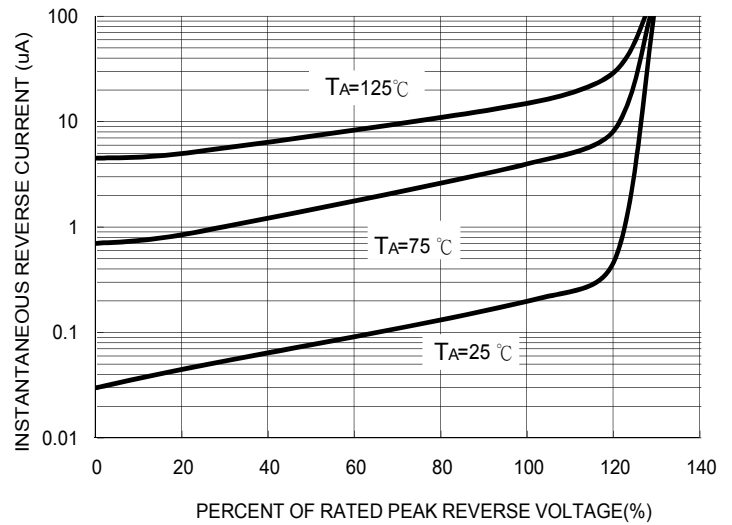
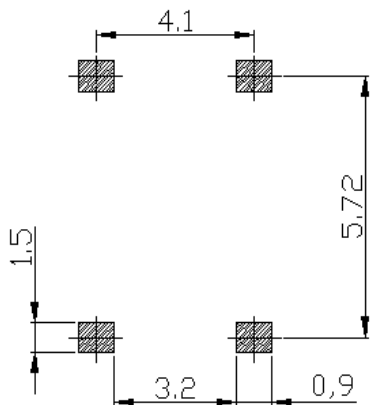


FIG. 4 TYPICAL REVERSE CHARACTERISTICS



ABS PAD LAYOUT



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