

SILICON BRIDGE RECTIFIER

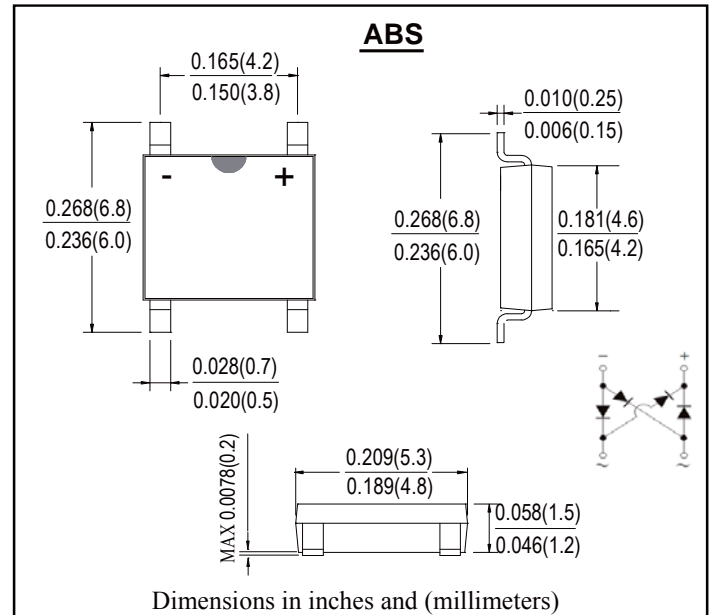
REVERSE VOLTAGE : 200 --- 1000 V CURRENT: 2.0A

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



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 | ABS22 | ABS24 | ABS26 | ABS28 | ABS210 | 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 @ $f_c = 100^\circ\text{C}$ | $I_F(AV)$ | 2.0 | | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 60 | | | | | A |
| Rating for fusing ($t < 8.3\text{ms}$) | $I^2 t$ | 14.94 | | | | | $A^2 s$ |
| Forward Voltage per element @ $I_F = 1.0A$ @ $I_F = 2.0A$ | V_{FM} | 0.95 | | | | | V |
| | | 1.0 | | | | | |
| Peak Reverse Current @ $f_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $f_A = 125^\circ\text{C}$ | I_R | 5.0 | | | | | μA |
| | | 200 | | | | | |
| Typical Thermal Resistance per leg | $R_{\theta JA}$ | 62.5 | | | | | $^\circ\text{C/W}$ |
| | $R_{\theta JL}$ | 25 | | | | | |
| Operating and Storage Temperature Range | T_J, T_{STG} | -55to+150 | | | | | $^\circ\text{C}$ |

RATINGS AND CHARACTERISTIC CURVES

FIG.1 FORWARD CURRENT DERATING CURVE

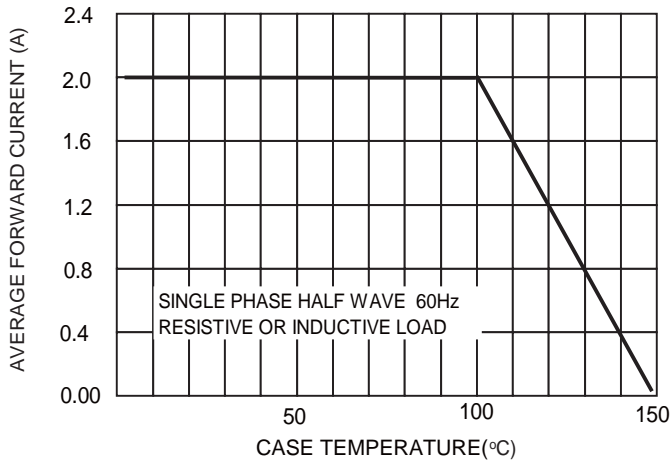


FIG.2 TYPICAL FORWARD CHARACTERISTICS

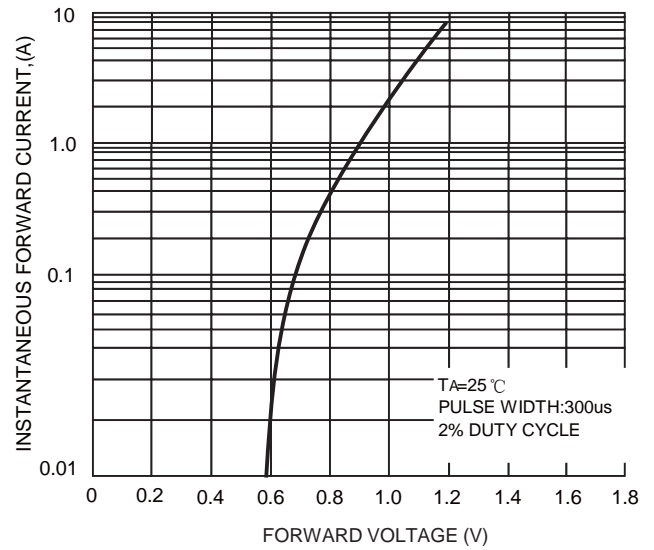


FIG.3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

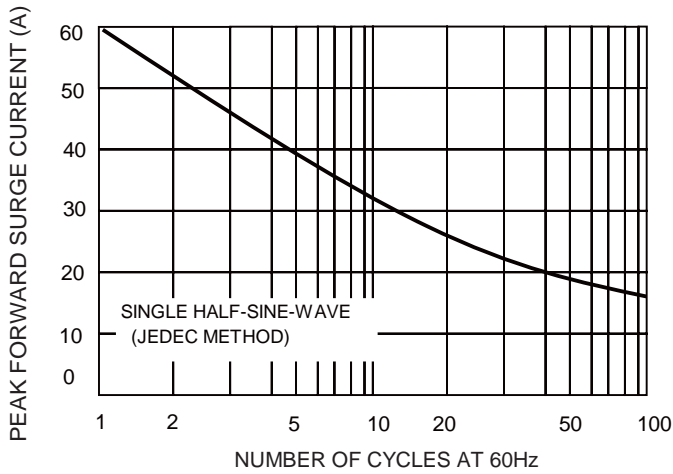
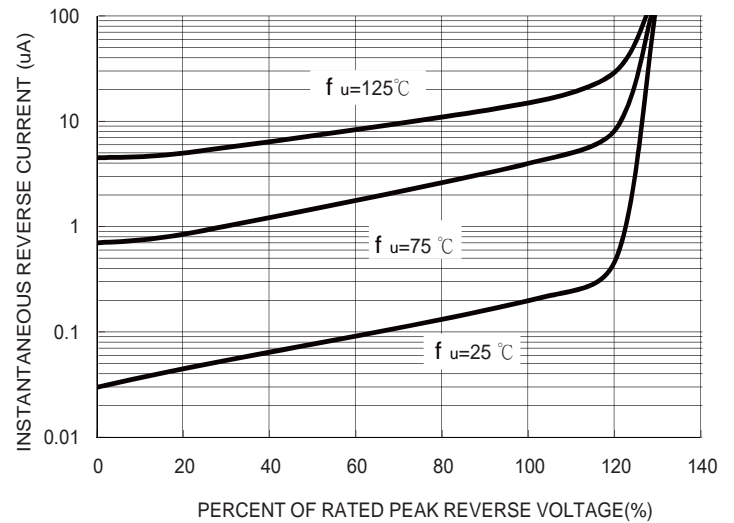


FIG. 4 TYPICAL REVERSE CHARACTERISTICS



ABS PAD LAYOUT

