

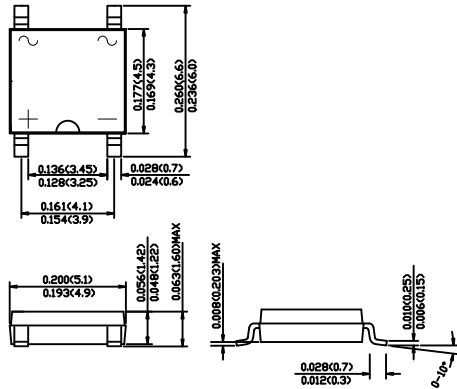


ABS2 THRU ABS10

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Voltage Range - 200 to 1000 Volts Current - 0.8/1.0 Ampere

ABS



FEATURES

- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction utilizing molded plastic technique
- ◆ High temperature soldering guaranteed: 260°C/10 seconds at 5 lbs., (2.3kg) tension
- ◆ Small size, simple installation
- ◆ High surge current capability
- ◆ Glass passivated chip junction

MECHANICAL DATA

Case: Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols marked on case

Mounting Position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load derate current by 20%.

| MDD Catalog Number | SYMBOLS | ABS2 | ABS4 | ABS6 | ABS8 | ABS10 | UNITS |
|---|------------------------------------|------|------|-------------|------|-------|--------------------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum RMS voltage | V_{RMS} | 140 | 280 | 420 | 560 | 700 | VOLTS |
| Maximum DC blocking voltage | V_{DC} | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum average forward rectified current On glass-epoxy P.C.B.(Note1) On aluminum substrate(Note2) | $I_{F(AV)}$ | | | 0.8 1.0 | | | Amps |
| Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | | | 30 | | | Amps |
| Maximum instantaneous forward voltage drop per leg at 0.4A | V_F | | | 0.95 | | | Volts |
| Maximum DC reverse current at rated DC blocking voltage $T_A=25^\circ C$ $T_A=100^\circ C$ | I_R | | | 5 100 | | | μA μA |
| Typical thermal resistance(NOTE 3) | $R_{\theta JL}$ $R_{\theta JA}$ | | | 25 80 | | | $^\circ C/W$ |
| Operating temperature range | T_J | | | -55 to +150 | | | $^\circ C$ |
| storage temperature range | T_{STG} | | | -55 to +150 | | | $^\circ C$ |

NOTES:1. On glass epoxy P.C.B. mounted on 0.05x0.05"(1.3x1.3mm) pads

2. On aluminum substrate P.C.B. with on area of 0.8"x0.8"(20x20mm) mounted on 0.05X0.05"(1.3X1.3mm) solder pad

3. Thermal resistance from junction to ambient and junction to lead mounted on P.C.B. with 0.2X0.2"(5X5mm) copper pads.

MDD ELECTRONIC

RATINGS AND CHARACTERISTIC CURVES ABS2 THRU ABS10

FIG.1 TYPICAL FORWARD CHARACTERISTICS

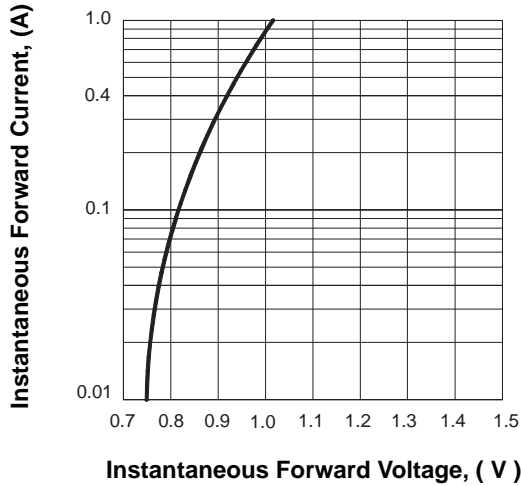


FIG.2 FORWARD DERATING CURVE

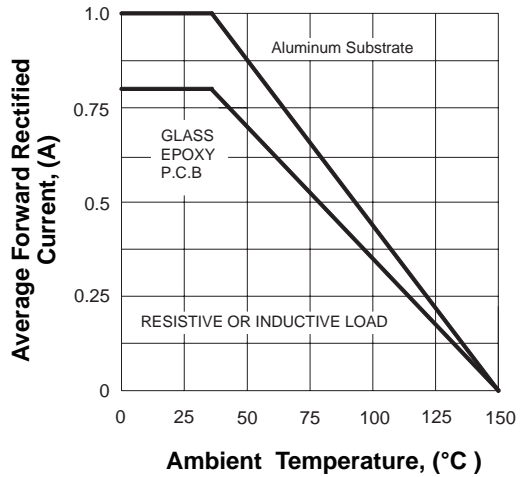


FIG.3 TYPICAL REVERSE CHARACTERISTICS

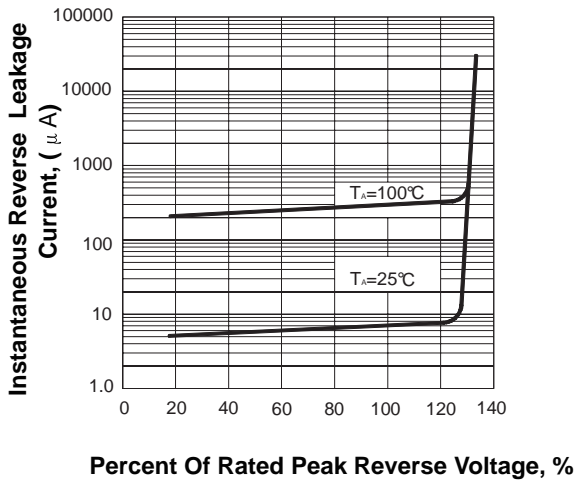


FIG.4 PEAK FORWARD SURGE CURRENT

