

ABS2 THRU ABS10

Single Phase 1.0 AMPS.Glass Passivated Bridge Rectifiers

Voltage Range 200 to 1000 Volts Current 1.0 Amperes

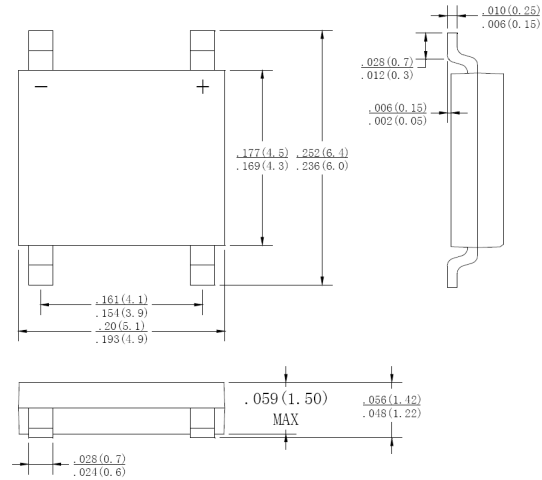
FEATURES

- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction technique results in inexpensive product
- ◆ High temperature soldering guaranteed:
260°C / 10 seconds / 0.375" (9.5mm)
lead length at 5 lbs., (2.3 kg) tension
- ◆ UL Recognized File number: E347215

MECHANICAL DATA

- ◆ Case: Molded plastic
- ◆ Lead: solder plated
- ◆ Polarity: As marked

ABS



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 | | ABS2 | ABS4 | ABS6 | ABS8 | ABS10 | UNITS |
|--|--------------------|-------------|------|------|------|-------|--------------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V_{RMS} | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V_{DC} | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current | $I_{(AV)}$ | 0.8 | | | | | A |
| On glass-epoxy P.C.B. | | 1.0 | | | | | |
| On aluminum substrate | | | | | | | |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Load (JEDEC method) | Rated I_{FSM} | 30 | | | | | A |
| Maximum Instantaneous Forward Voltage at 0.4A | V_F | 0.95 | | | | | V |
| Maximum DC Reverse Current @ $T_A=25^\circ C$ | I_R | 10 | | | | | μA |
| Rated DC Blocking voltage per leg $T_A=125^\circ C$ | | 150 | | | | | |
| Typical Thermal Resistance (Note1) | $R_{\theta JA}$ | 62.5 | | | | | $^\circ C/W$ |
| (Note2) | $R_{\theta JL}$ | 25 | | | | | |
| Operating Temperature Range | T_J | -55 to +150 | | | | | $^\circ C$ |
| Storage Temperature Range | T_{STG} | -55 to +150 | | | | | $^\circ C$ |

Note: 1. On aluminum substrate P.C.B. with an area of 0.8×0.8”(20×20mm) mounted on 0.05×0.05”(1.3×1.3mm) solder pad.

2. On glass epoxy P.C.B. mounted on 0.05×0.05”(1.3×1.3mm) pads.

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RATING AND CHARACTERISTIC CURVES ABS2 THRU ABS10

FIG.1-MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMNT

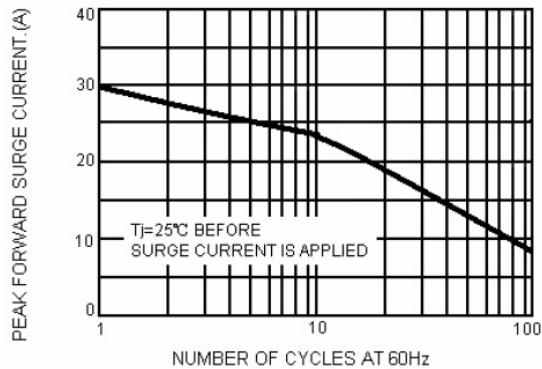


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

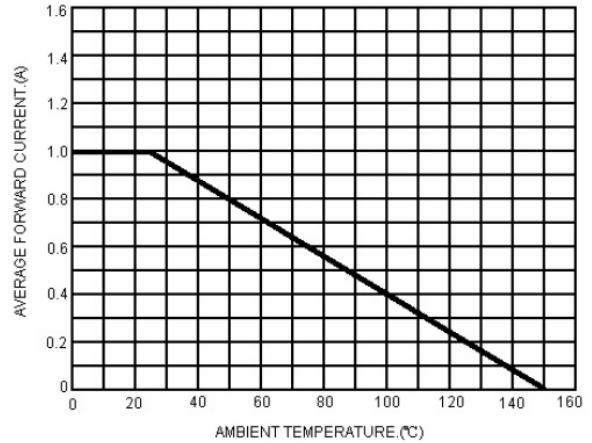


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

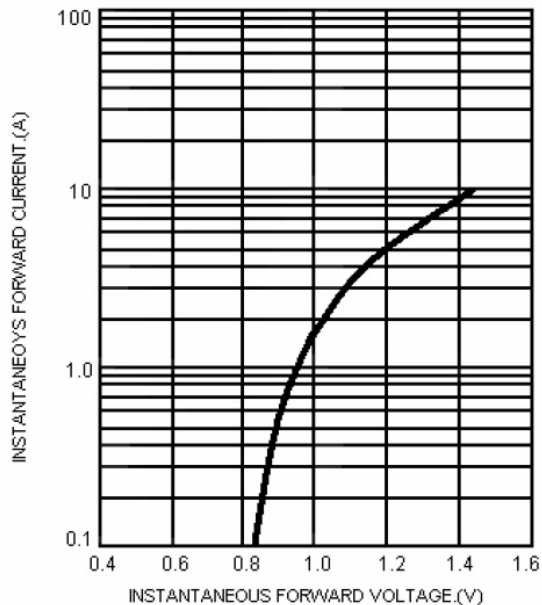
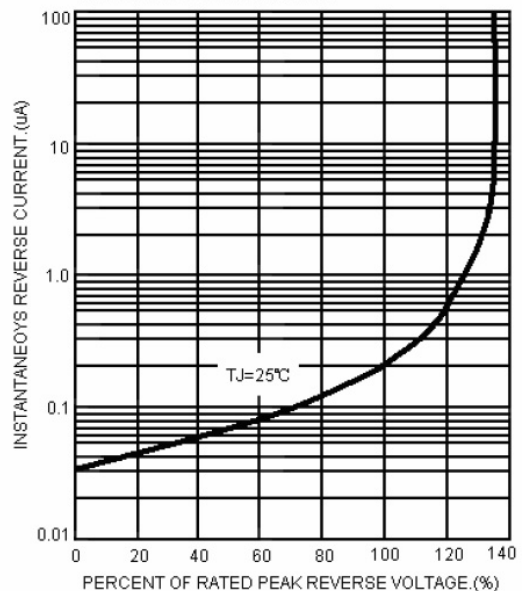


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



Note: Specification are subject to change without notice. For more detail and update, please visit our website.