

ABS05 THRU ABS10

SINGLE PHASE 1.0 AMP SURFACE MOUNT BRIDGE RECTIFIERS



FEATURES

- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded plastic technique
- * High surge current capability
- * Polarity: Symbol molded on body
- * Mounting position: Any
- * Weight: 0.12 grams

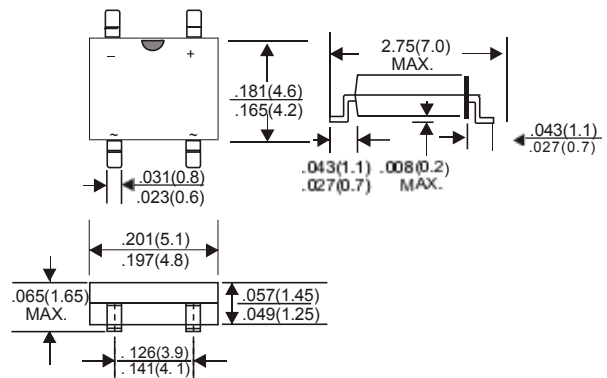
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

1.0 Ampere

ABS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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 | ABS05 | ABS1 | ABS2 | ABS4 | ABS6 | ABS8 | ABS10 | UNITS |
|---|----------|------|------|------|------|------|-------|-------|
| Maximum Recurrent Peak Reverse Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current at Ta=40°C(Note 1) | 1.0 | | | | | | | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 3.0 | | | | | | | A |
| Maximum Forward Voltage Drop per Bridge Element at 0.4 A D.C. | 1.0 | | | | | | | V |
| Maximum DC Reverse Current Ta=25 C | 5.0 | | | | | | | µA |
| at Rated DC Blocking Voltage Ta=125 C | 500 | | | | | | | µA |
| Typical Thermal Resistance R JA (Note 2) | 75 | | | | | | | C/W |
| Operating Temperature Range, Tj | -55—+150 | | | | | | | C |
| Storage Temperature Range, Tstg | -55—+150 | | | | | | | C |

NOTES: 1. Mounted on P.C. Board.
2. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES (ABS05 THRU ABS10)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

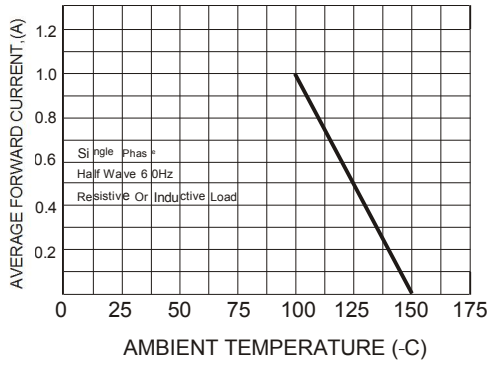


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

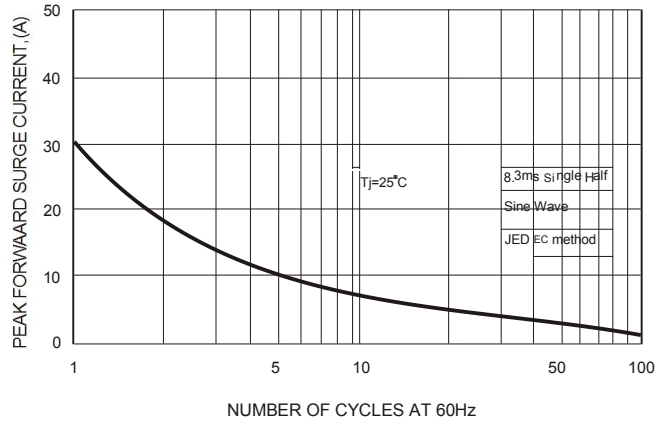


FIG.3-TYPICAL FORWARD CHARACTERISTICS

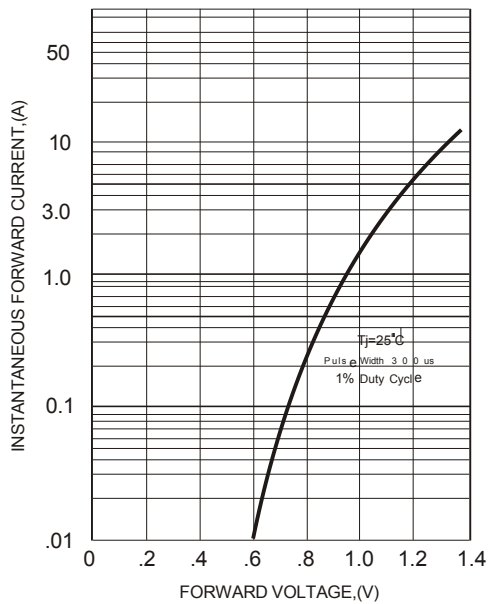
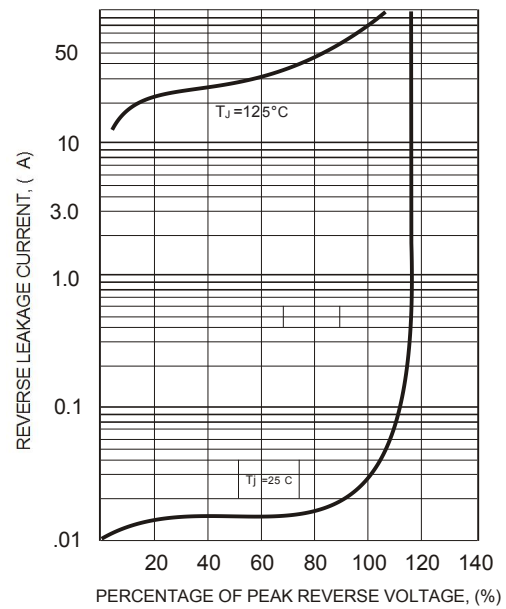


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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