



ELECTRONICS INDUSTRY (USA) CO., LTD.

103 MOO 4, LATKRABANG EXPORT PROCESSING ZONE, LATKRABANG, BANGKOK 10520, THAILAND
 TEL. : (66 2) 326-0102, 739-4580 FAX. : (66 2) 326-0933 E-mail : eicfirst @ iname.com http. : // www.eicsemi.com



Certificate Number: Q10561



Certificate Number: E17276

RB150 - RB158

PRV : 50 - 800 Volts

Io : 1.5 Amperes

FEATURES :

- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * High case dielectric strength of 2000 V_{DC}
- * Ideal for printed circuit board

MECHANICAL DATA :

- * Case : Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Terminals : Plated lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Polarity symbols marked on case
- * Mounting position : Any
- * Weight : 3.4 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

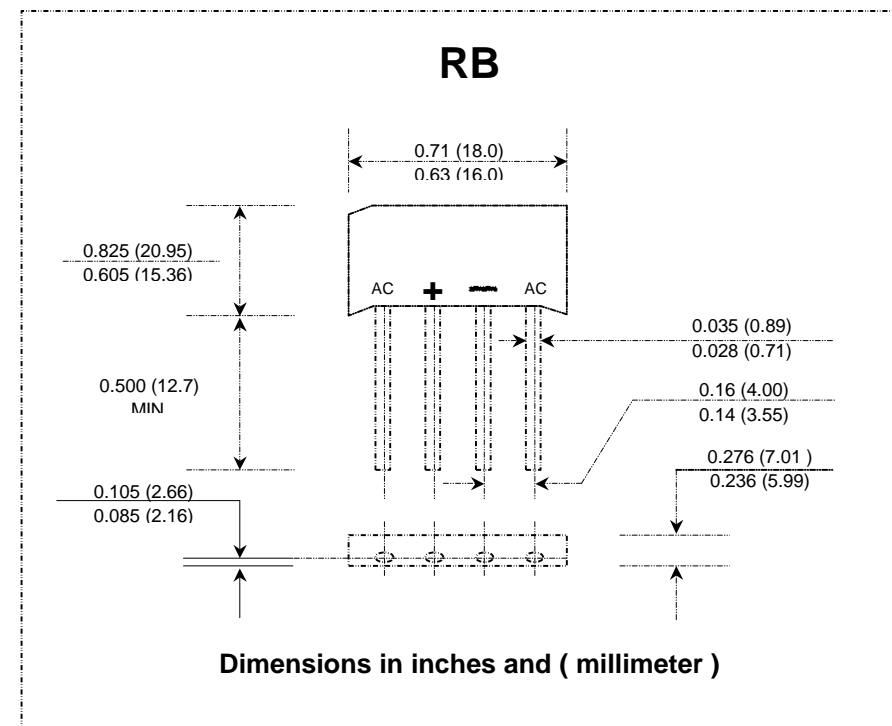
Rating at 25 °C ambient temperature unless otherwise specified.
 Single phase, half wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

| RATING | SYMBOL | RB150 | RB151 | RB152 | RB154 | RB156 | RB158 | UNIT |
|--|-------------------------|-------------------|-------|-------|-------|-------|-------|-------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | Volts |
| Maximum RMS Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | Volts |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | Volts |
| Maximum Average Forward Current T _c =50°C | I _{F(AV)} | 1.5 | | | | | | Amps. |
| Peak Forward Surge Current, Single half sine wave Superimposed on rated load (JEDEC Method) | I _{FSM} | 40 | | | | | | Amps. |
| Maximum Forward Voltage per Diode at I _F = 1 Amp. | V _F | 0.95 | | | | | | Volt |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | T _a = 25 °C | I _R | | | | | | μA |
| | T _a = 100 °C | I _{R(H)} | | | | | | μA |
| Typical Thermal Resistance (Note 1) | R _{θJL} | 15 | | | | | | °C/W |
| Operating Junction Temperature Range | T _J | - 40 to + 140 | | | | | | °C |
| Storage Temperature Range | T _{STG} | - 40 to + 140 | | | | | | °C |

Notes :

1) Thermal resistance from Junction to lead mounted on P.C. Board with 0.47" X 0.47" (12mm X 12mm) Cu pads.

SILICON BRIDGE RECTIFIERS



UPDATE : NOVEMBER 1,1998



ELECTRONICS INDUSTRY (USA) CO., LTD.



Certificate Number: Q10561



Certificate Number: E17276

103 MOO 4, LATKRABANG EXPORT PROCESSING ZONE, LATKRABANG, BANGKOK 10520, THAILAND
TEL. : (66 2) 326-0102, 739-4580 FAX. : (66 2) 326-0933 E-mail : eicfirst @ iname.com http. : // www.eicsemi.com

RATING AND CHARACTERISTIC CURVES (RB150 - RB158)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

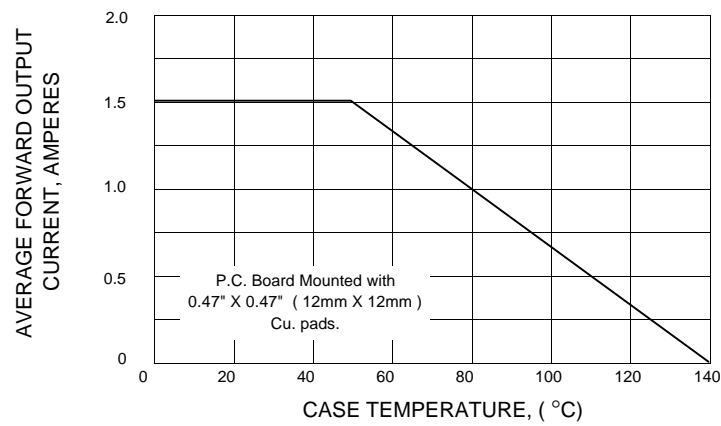


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

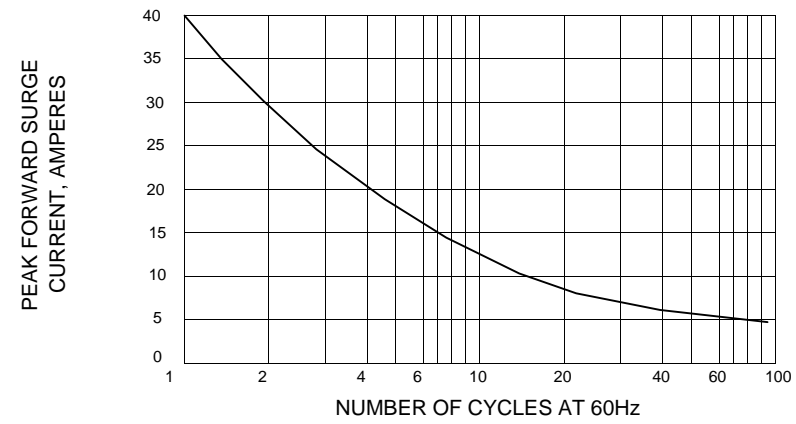


FIG.3 - TYPICAL FORWARD CHARACTERISTICS PER DIODE

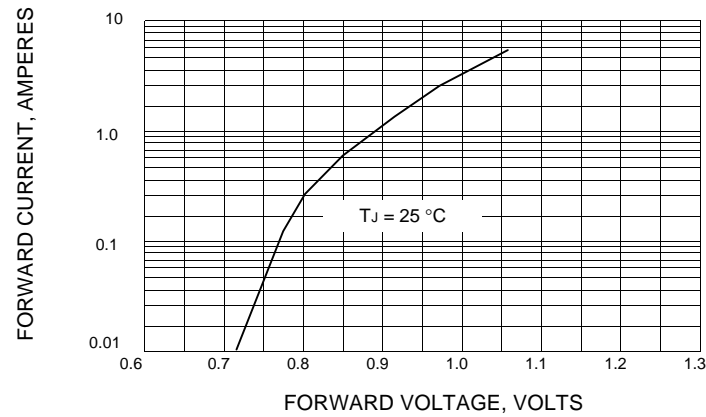


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

