



CHENYI ELECTRONICS

RB151 THRU RB157

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

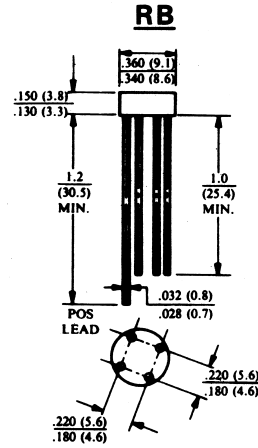
Voltage: 50 TO 1000V CURRENT:1.5A

FEATURES

- Ideal for printed circuit board
- Reliable low cost construction
- Surge overload rating:50 A peak

MECHANICAL DATA

- Terminal:** Plated leads solderable per MIL-STD 202E, method 208C
- Case:** UL-94 Class V-0 recognized Flame Retardant Epoxy
- Polarity:** Polarity symbol marked on body
- Mounting position:** any



Dimensions in inches and (millimeters)

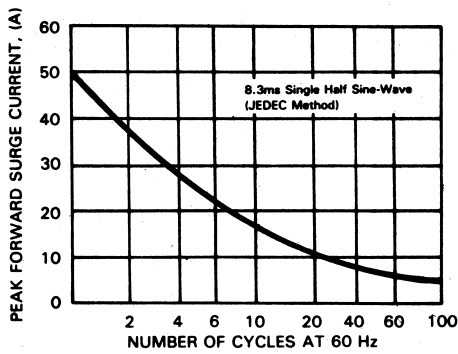
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60HZ, resistive or inductive load rating at 25 °C, unless otherwise stated,
for capacitive load, derate current by 20%)

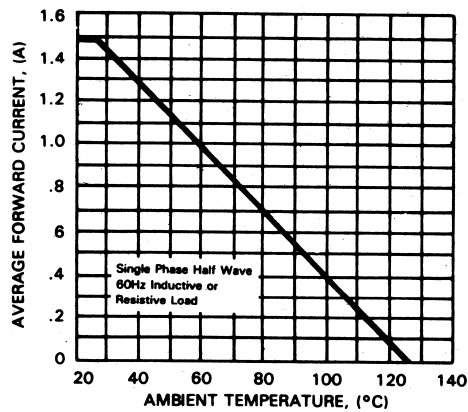
| | SYMBOL | RB 151 | RB 152 | RB 153 | RB 154 | RB 155 | RB 156 | RB 157 | units |
|---|--------------------|-------------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage | V _{rrm} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V _{rms} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC blocking Voltage | V _{dc} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified current at Ta=25 °C | I _{f(av)} | 1.5 | | | | | | | A |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load | I _{fsm} | 50 | | | | | | | A |
| Maximum Instantaneous Forward Voltage at forward current 1.0A | V _f | 1.1 | | | | | | | V |
| Maximum DC Reverse Voltage Ta=25 °C | I _r | 10.0 | | | | | | | μ A |
| at rated DC blocking voltage Ta=100 °C | | 1.0 | | | | | | | m A |
| Typical Junction Capacitance | C _j | 24 | | | | | | | pF |
| Operating Temperature Range | T _j | -55 to +125 | | | | | | | °C |
| Storage and operation Junction Temperature | T _{stg} | -55 to +150 | | | | | | | °C |
| Note: | | | | | | | | | |
| 1.Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc | | | | | | | | | |

RATINGS AND CHARACTERISTIC CURVES RB151 THRU RB157

**FIG.1-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT PER LEG**



**FIG.2-TYPICAL FORWARD CURRENT
DERATING CURVE**



**FIG.3-TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS**

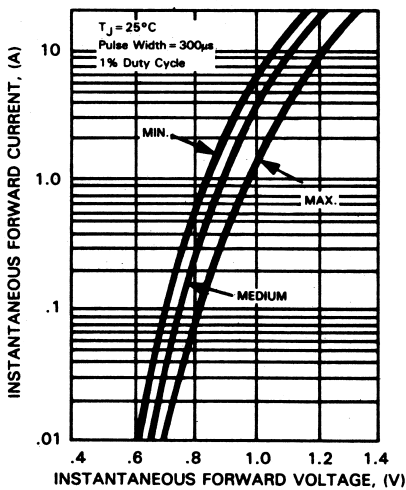


FIG.4-TYPICAL REVERSE CHARACTERISTICS

