CE

CHENYI ELECTRONICS

RB151 THRU RB157

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 50 TO 1000V CURRENT:1.5A

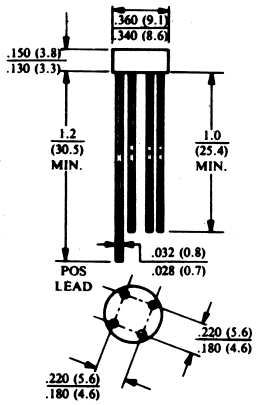
FEATURES

Ideal for printed circuit board

Reliable low cost construction

Surge overload rating:50 A peak

RB



Dimensions in inches and (millimeters)

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60HZ, resistive or inductive load rating at 25℃, 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	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified current at Ta=25℃	If(av)	1.5							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	50							A
Maximum Instantaneous Forward Voltage at forward current 1.0A	Vf	1.1							V
Maximum DC Reverse Voltage Ta=25℃	Ir	10.0							μA
at rated DC blocking voltage Ta=100℃		1.0							m A
Tyoical Junction Capacitance	Cj	24							pF
Operating Temperature Range	Tj	-55 to +125							℃
Storage and operation Junction Temperature	Tstg	-55 to +150							℃

Note:

1.Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

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RATINGS AND CHARACTERISTIC CURVES RB151 THRU RB157

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

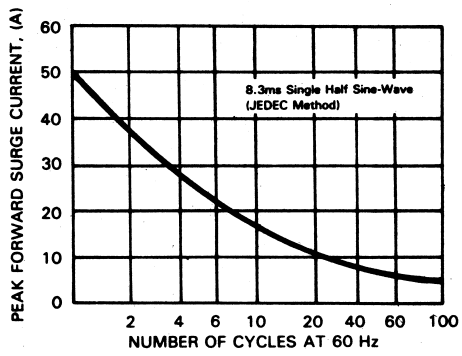

FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

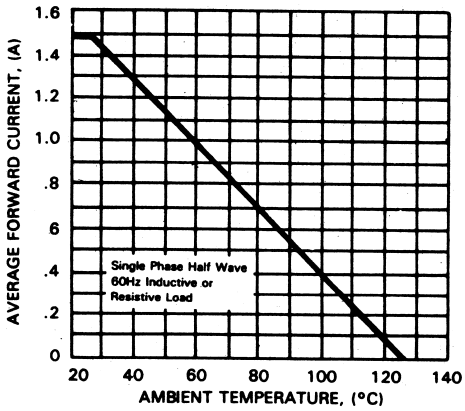

FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

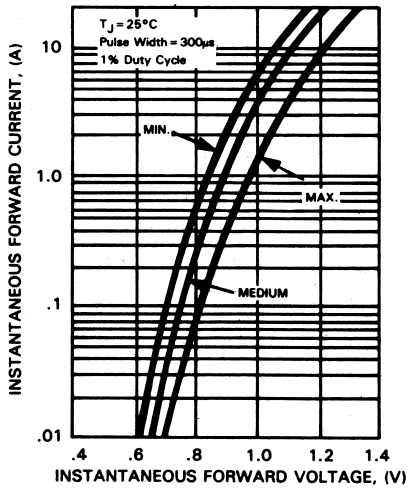

FIG.4-TYPICAL REVERSE CHARACTERISTICS