

SINGLE PHASE BRIDGE RECTIFIER

RB151 - RB157

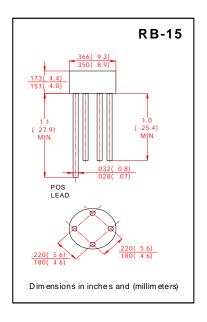
VOLTAGE RANGE - 50 to 1000 V CURRENT - 1.5 A

FEATURES

- Low cost construction
- High forward surge current capability
- Ideal for printed circuit board
- High isolation voltage from case to leads
- High temperature soldering guaranteed:
 260 °C/10 second, at 5 lbs. (2.3kg) tension.

MECHANICAL DATA

- Case: Molded plastic body
- Terminal: Lead solderable per MIL-STD-202E method 208C.
- Polarity: Polarity symbols molded on case
- Mounting: Thru hole for #6 screw, 5 in.-lbs torque max.
- Weight:0.13ounce, 3.66 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOLS	RB151	RB152	RB153	RB154	RB155	RB156	RB157	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, at $T_C=25$ °C (Note 2)	$I_{(AV)}$	1.5							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50							Amps
Rating for Fusing(t<8.3ms)	I^2T	10							A^2S
Maximum Instantaneous Forward Voltage at 1.0A	V_{F}	1.0							Volts
Maximum DC Reverse Current at rated T _A =25 ℃	I_R	5.0							μAmps
DC blocking voltage per element $T_A=100$ °C		0.5							mAmps
Typical Junction Capacitance(Note 1)	$C_{\rm J}$	15							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	40							°C/W
Operating Temperature Range	T_{J}	-55 to +150							$^{\circ}$
Storage Temperature Range	T_{STG}	-55 to +150							℃ .

NOTES:

- 1. Unit mounted on 8.7"×8.7"×0.24" thick (22×22×0.6 cm) Al. plate.
- 2. Unit mounted on P.C.B at 0.375" (9.5mm) lead length with 0.22"×0.22" (5.5×5.5mm) copper pads.

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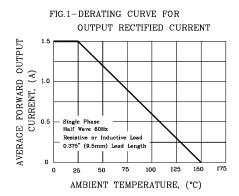


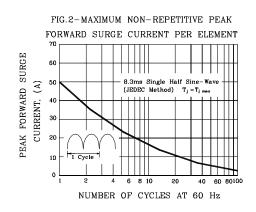
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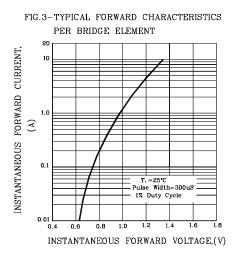
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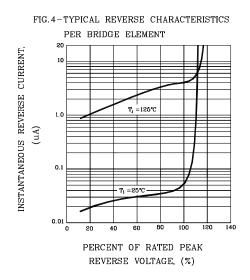
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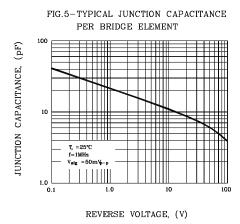
RATING AND CHRACTERISTIC CURVES RB151 - RB157











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