MAX-DIODE ELECTRONIC CO.,LTD

RB150 SERIES

SILICON BRIDGE RECTIFIERS

Recongnized File

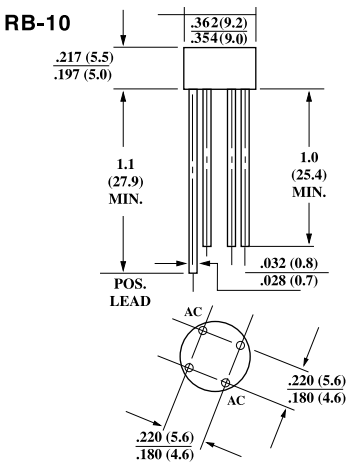
FEATURES

- This Series Is UL recognized under the file number E135627.
- Plastic material used carries Underwriters Laboratory recognition.
- High surge dielectric strength.
- Exceeds environmental standards of MIL-STD-19500.
- Ideal for printed circuit board.
- High temperature soldering guaranteed : 265℃/10 seconds/.375"(9.5mm) lead Length/5 lbs., (2.3kg) tension

MECHANICAL DATA

Case : Reliable low cost construction utilizing molded plastic technique
Terminals : lead solderable per MIL-STD-202, Method 208
Mounting position : Any
Weight : 1.2 grams.

VOLTAGE RANGE
50 to 1000 Volts
CURRENT
1.5 Amperes



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

RATINGS	RB150	RB151	RB152	RB154	RB156	RB158	RB1510	Units
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input 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 output current .375" (9.5mm) Lead Length at TA = 25℃	1.5							A
Peak Forward Surge Current , 8.3 ms single sing-wave superimposed on rated Load (JEDEC method)	50.0							A
I^2t Rating for fusing (t < .00835)	5.0							A^2S
Maximum Instantaneous Forward Voltage Drop Per Element at 1.0A	1.0							V
Maximum Reverse Current at Rated DC Blocking Voltage per Bridge Element TA = 25℃	10.0							μA
TA = 100℃	1.0							mA
Typical Junction Capacitance per leg (Note1) C_J	24.0							pF
Operating Temperature Range T_J	-55 to + 125							℃
Storage Temperature Range T_{STG}	-55 to + 150							℃

NOTE : 1. Measured at 1.0MHz and Applied Reverse Voltage of 4.0 Volts.

RATING AND CHARACTERISTIC CURVES RB150 THRU RB1510

FIG. 1-DERATING CURVE OUTPUT RECTIFIED CURRENT

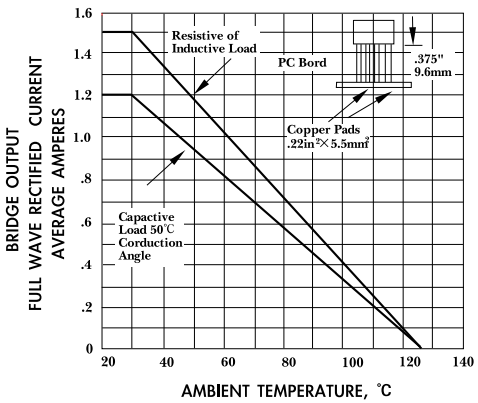


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD CURRENT

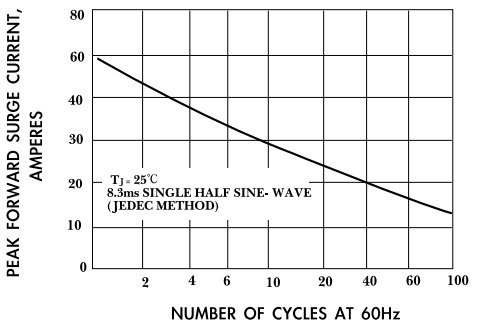


FIG. 3-TYPICAL FORWARD CHARACTERISTICS

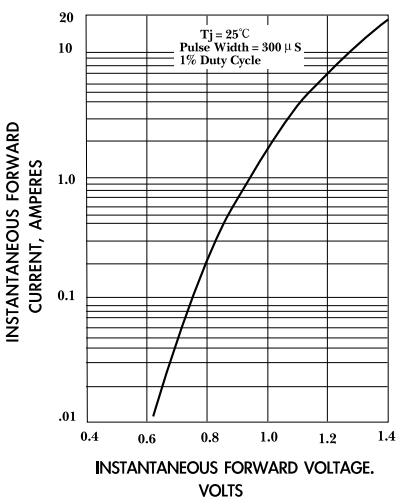


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

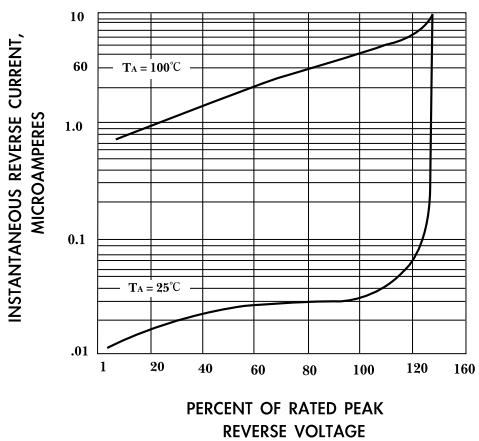


FIG. 5-TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT