

1.5A Bridge Rectifier

Features

- High forward surge current capability
- Ideal for printed circuit board
- High temperature soldering guaranteed:
260°C/10 seconds, 0.375" (9.5mm) lead length
at 5 lbs (2.3kg) tension
- This series is UL recognized under component index,
File number E194718
- RoHS Compliant



Mechanical Data

Case:	Molded plastic body
Epoxy:	Meets UL 94V-0 flammability rating
Terminals:	Lead solderable per MIL - STD – 202E, method 208C
Polarity	Polarity symbols marked on case
Weight:	0.04 ounce, 1.15 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted)

Symbol	Description	RB151	RB152	RB153	RB154	RB155	RB156	RB157	Unit
VRRM	Max. Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V
VRMS	Max. RMS Voltage	35	70	140	280	420	560	700	V
VDC	Max. DC Blocking Voltage	50	100	200	400	600	800	1000	V
IF(AV)	Max. Average Forward Rectified Output Current at $T_A=25^{\circ}C$ (Note 1)	1.5							A
IFSM	Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	50							A
I²t	Rating for Fusing ($t<8.3ms$)	10							A ² s
TJ	Operating Temperature Range	-55 to +125							° C
TSTG	Storage Temperature Range	-55 to +150							° C

Notes: 1. Unit mounted on P.C. board with 0.22" X 0.22" (5.5 X5.5 mm) copper pads, .375" (9.5mm) lead length.

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Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	RB151	RB152	RB153	RB154	RB155	RB156	RB157	Unit	
V_F	Max. Instantaneous Forward Voltage Drop per leg at 1.0 A	1.0							V	
I_R	Max. DC Reverse Current at Rated DC Blocking Voltage per leg	$T_A=25^{\circ}C$							5.0	μA
		$T_A=100^{\circ}C$							0.5	mA
C_J	Typical Junction Capacitance (Note1)	15							pF	
$R_{\theta-JA}$	Typical Thermal Resistance (Note2)	40							$^{\circ}C/W$	

- Notes:**
1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
 2. Unit mounted on P.C. board with 0.22" X 0.22" (5.5 X5.5 mm) copper pads,. 375" (9.5mm) lead length.

Typical Characteristics Curves

Fig.1- Derating Curve For Output Rectified Current

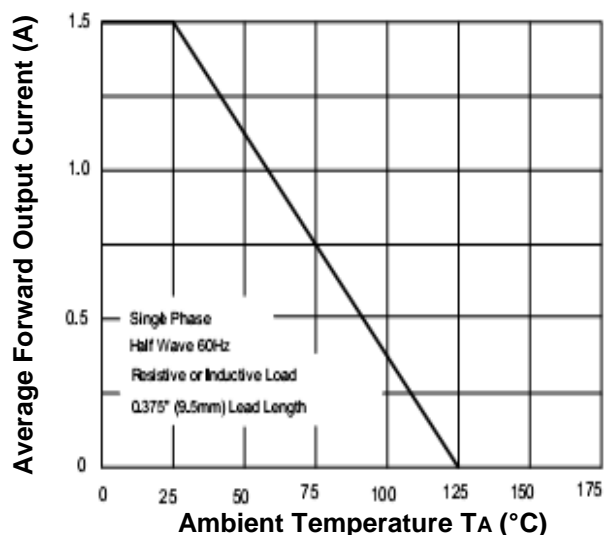
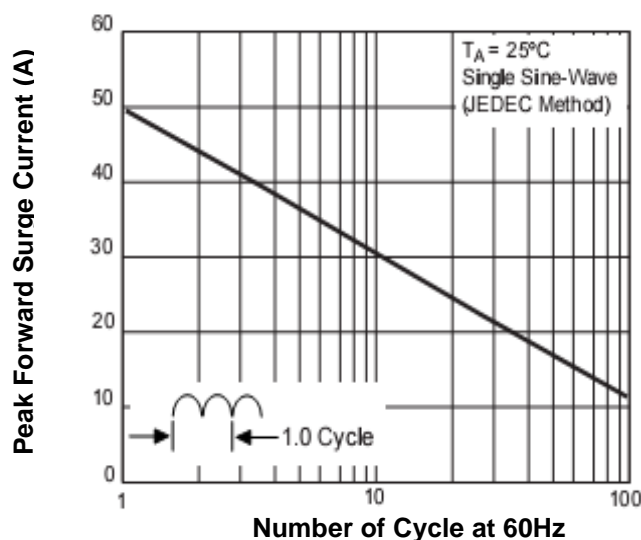


Fig.2- Max. Non-Repetitive Peak Forward Surge Current per leg



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Fig.3- Typical Forward Characteristics per leg

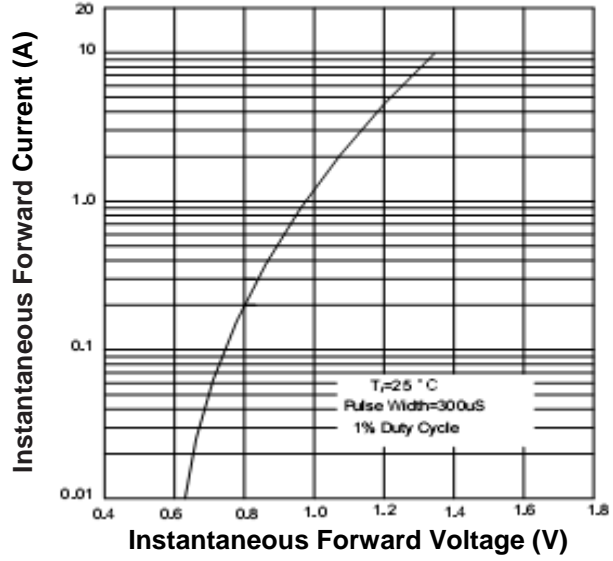


Fig.4- Typical Reverse Characteristics per leg

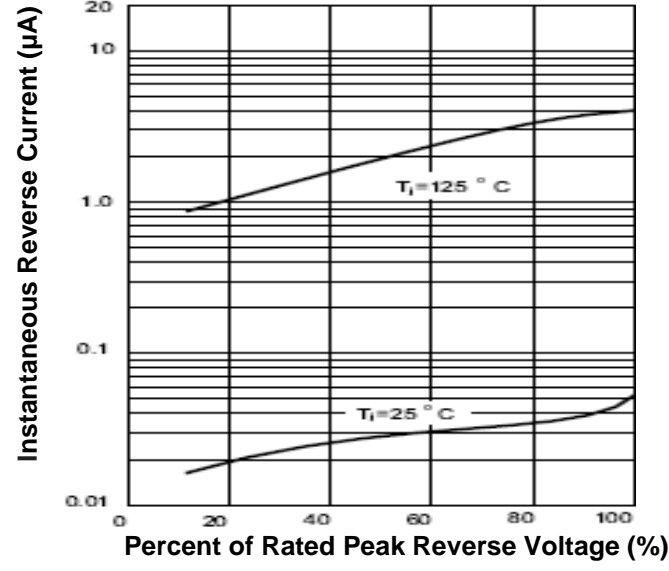
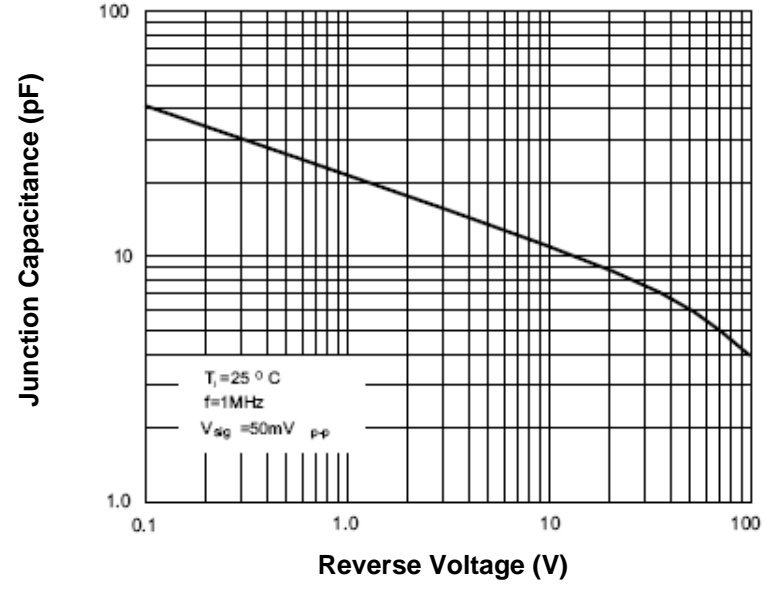


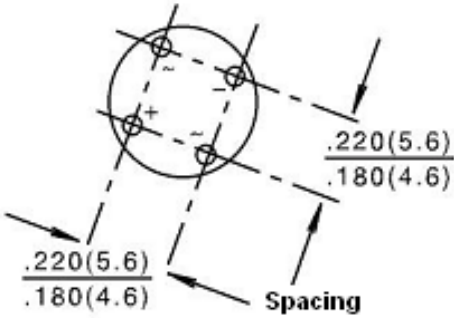
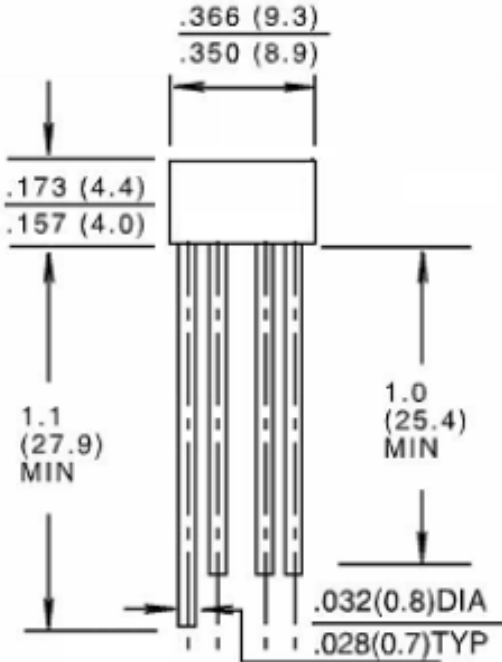
Fig.5- Typical Junction Cap. per leg



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Dimensions in inches (mm)



RB

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