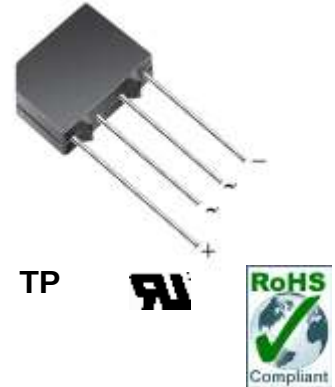


2A Bridge Rectifier

Features

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



Mechanical Data

Case:	TP, Epoxy meets UL 94V-0 flammability rating
Terminals:	Plated leads solderable per MIL-STD-202E, Method 208C
Polarity:	Polarity symbols marked on case
Weight:	0.069 ounce, 1.95 gram

Maximum Ratings And Electrical Characteristics ($T_{amb}=25^{\circ}\text{C}$)

Symbols	Parameter	BR805D TP200	BR81D TP201	BR82D TP202	BR84D TP204	BR86D TP206	BR88D TP208	BR810D TP210	Unit	Conditions
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
V_{RMS}	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
V_{DC}	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
I_(AV)	Maximum Average Forward Rectified Output Current at $T_A=50^{\circ}\text{C}$	2.0							A	Note 1
I_{FSM}	Peak Forward Surge Current	50							A	8.3ms Single Sine-wave Superimposed on Rated Load (JEDEC Method)
I²_t	Rating for Fusing ($t<8.3\text{ms}$)	10							A ² sec	

2A Bridge Rectifier

BR805DTP200 - BR810DTP210

Symbols	Parameter	BR805D TP200	BR81D TP201	BR82D TP202	BR84D TP204	BR86D TP206	BR88D TP208	BR810D TP210	Unit	Conditions
V _F	Maximum Instantaneous Forward Voltage Drop per leg	1.0							V	I _F =1.0A
		1.3								I _F =1.57A
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage per leg	5.0							μA	T _A =25°C
		500								T _A =100°C
C _J	Typical Junction Capacitance per leg	20							pF	V _R =4V, f=1MHz
R _{θJA}	Typical Thermal Resistance per leg	28							°C/W	Note 1
T _J ,T _{STG}	Operating Junction and Storage Temperature Range	-55 to 150							°C	

Note: 1. Unit mounted on P.C. board with 0.47" x 0.47" (12mm x 12mm) copper pads.

0.375" (9.5mm) lead length.

2. Single phase, half wave, 60Hz, resistive or inductive load.

3. For capacitive load derate current by 20%.

Rating and Characteristic Curves

Fig.1-Derating Curve Output Rectified Current

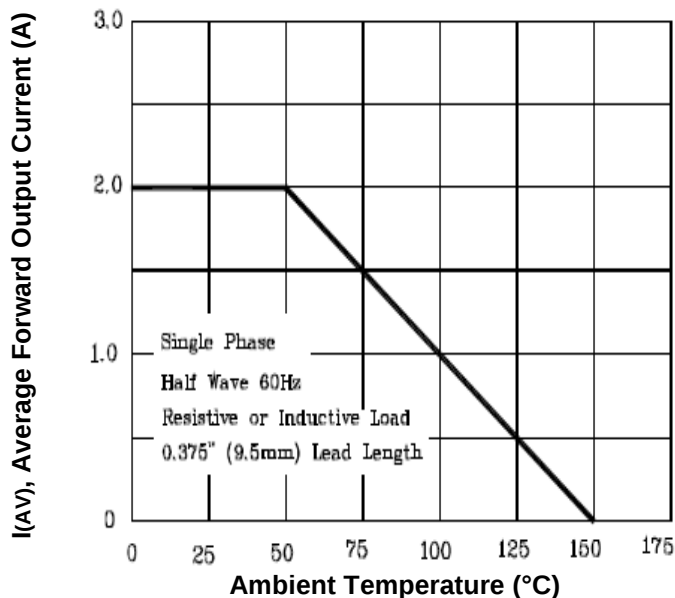


Fig.2-Maximum Non-Repetitive Peak Forward Surge Current per leg

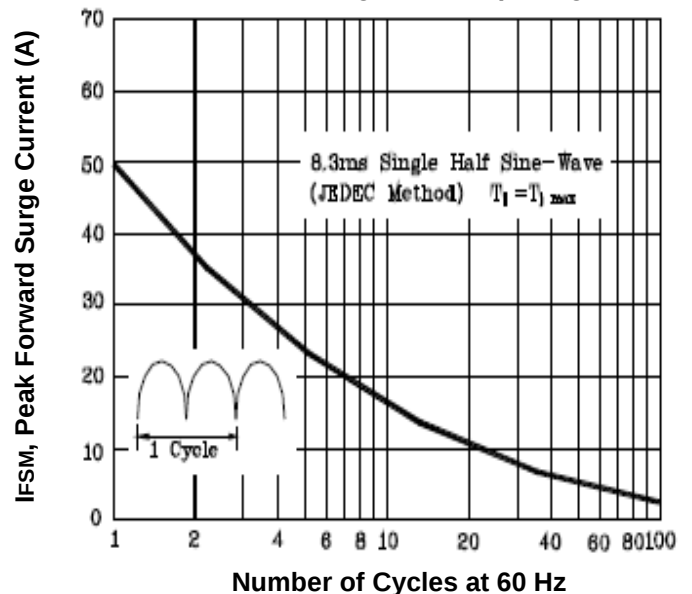


Fig.3-Typical Forward Characteristics
per leg

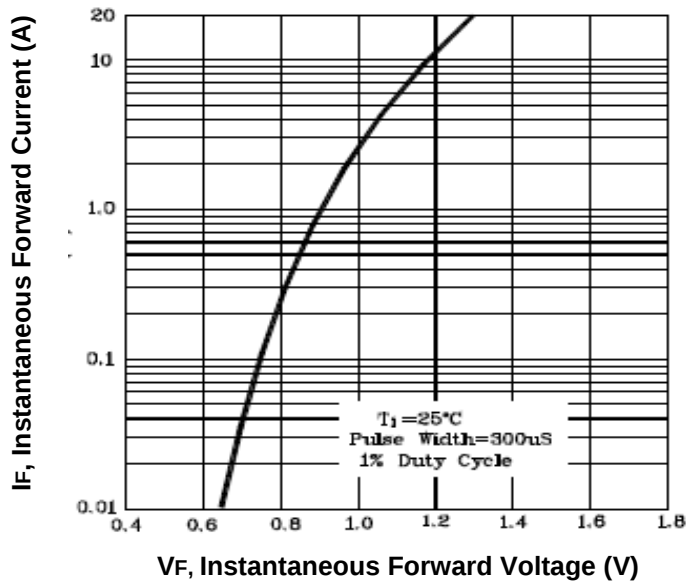


Fig.4-Typical Reverse Characteristics
per leg

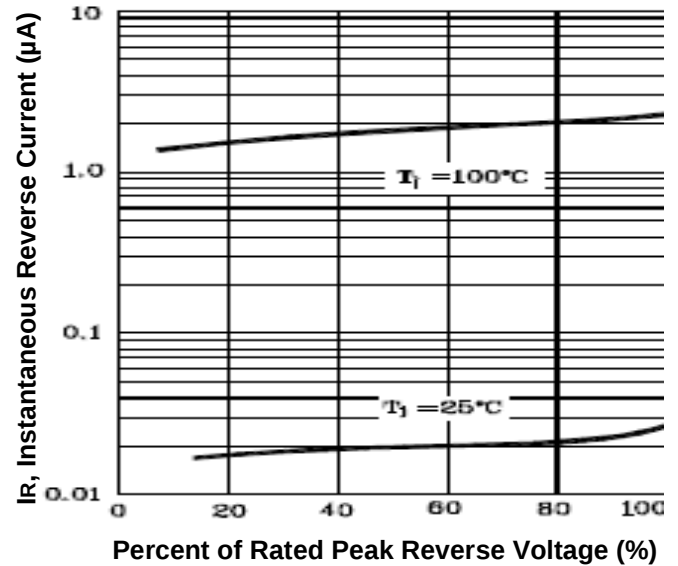
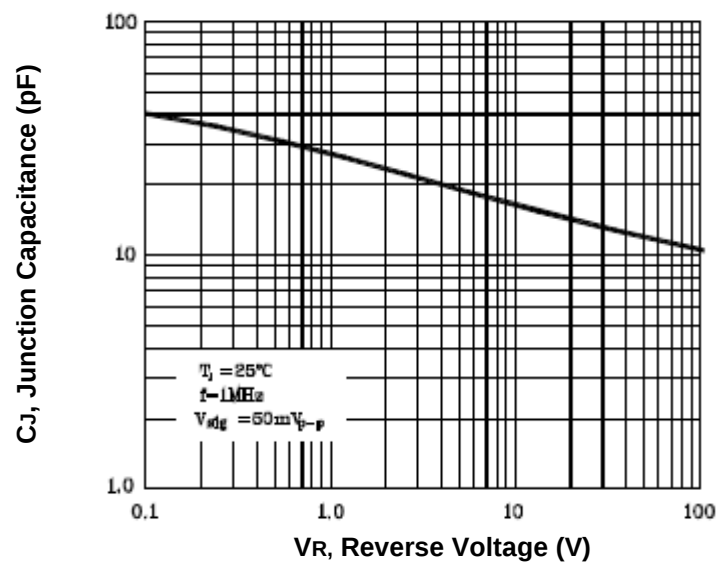
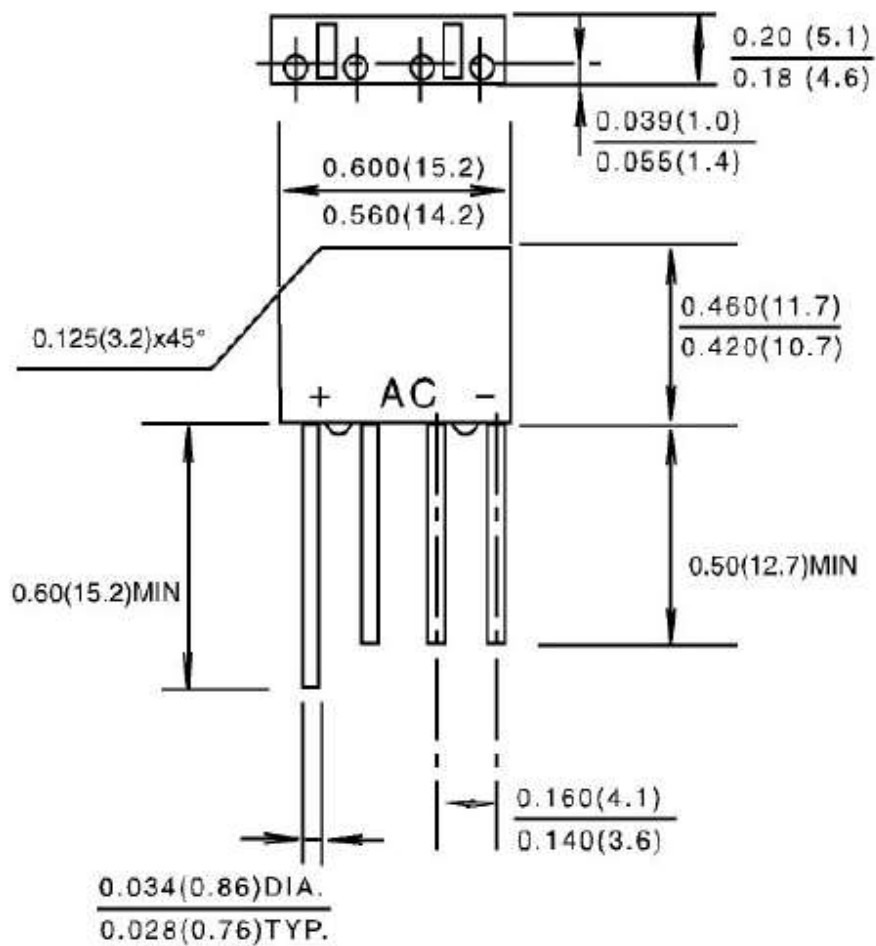


Fig.5-Typical Junction Capacitance
per leg



Dimensions in inch (mm)



Case Style TP

Ordering Information



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