

2.0A Glass Passivated Bridge Rectifier

Features

- Glass passivated chip junction
- High surge current capability
- High case dielectric strength
- Ideal for printed circuit boards
- High temperature soldering guaranteed: 260°C/10 seconds
0.375" (9.5mm) lead length at 5lbs.(2.3kg) tension
- RoHS compliant



TP



Mechanical Data

Case:	TP, Molded plastic body over passivated junction
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Plated leads solderable per MIL-STD-202, Method 208
Polarity:	As marked on case
Weight:	0.06 ounce, 1.7 gram

Maximum Ratings And Electrical Characteristics (T_{amb}=25°C)

Symbols	Parameter	TP 200G	TP 201G	TP 202G	TP 204G	TP 206G	TP 208G	TP 210G	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_{F(AV)}	Maximum Average Forward Rectified Current	2.0							A	TA=55° C
I_{FSM}	Peak Forward Surge Current	60							A	8.3ms Single Sine-wave Superimposed on Rated Load (JEDEC Method)
I²_t	Rating for Fusing (t<8.3ms)	15							A ² sec	

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TP200G - TP210G

Symbols	Parameter	TP 200G	TP 201G	TP 202G	TP 204G	TP 206G	TP 208G	TP 210G	Unit	Conditions
V_F	Maximum Instantaneous Forward Voltage Drop per leg	1.1							V	I _F =3.14A
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage per leg	5.0							μA	TA=25°C
		500								TA=125°C
C_J	Typical Junction Capacitance per leg	25							pF	V _R =4V, f=1MHz
R_{θJA}	Typical Thermal Resistance per leg	30							°C/W	Note 1
R_{θJL}		11								
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-55 to +165							°C	

Note: 1. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.47 x 0.47" (12 x 12mm) copper pads.

Rating and Characteristic Curves

Fig.1- Derating Curve Output Rectified Current

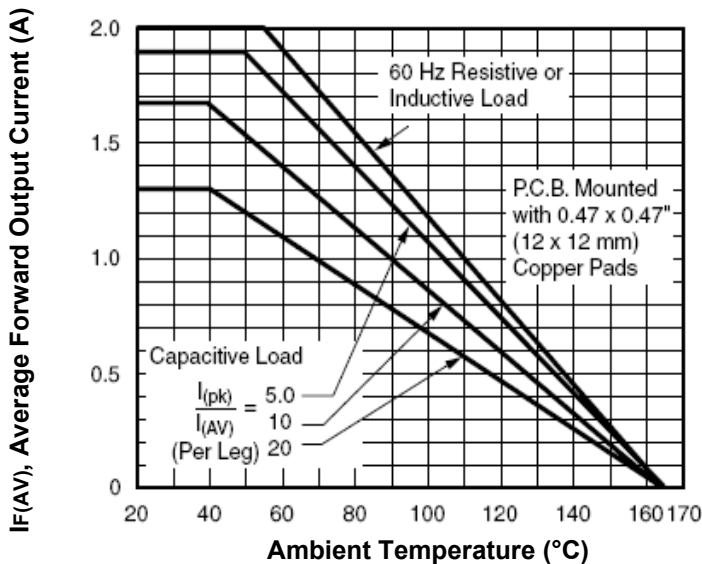
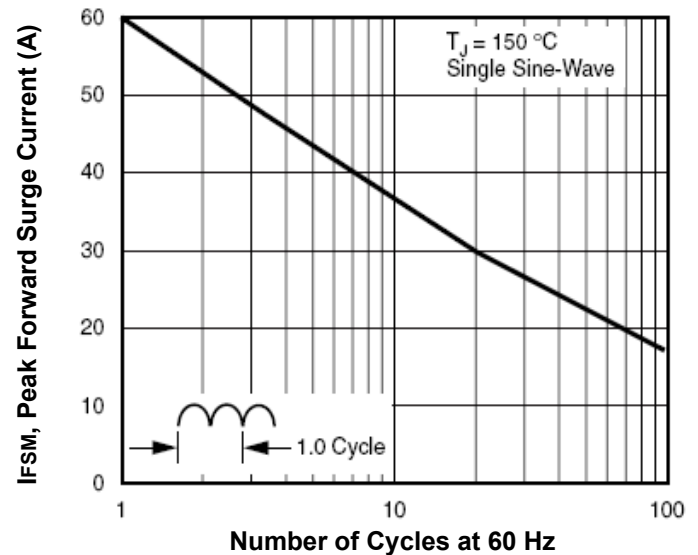


Fig.2-Maximum Non-Repetitive Peak Forward Surge Current per leg



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Fig.3-Typical Forward Characteristics per leg

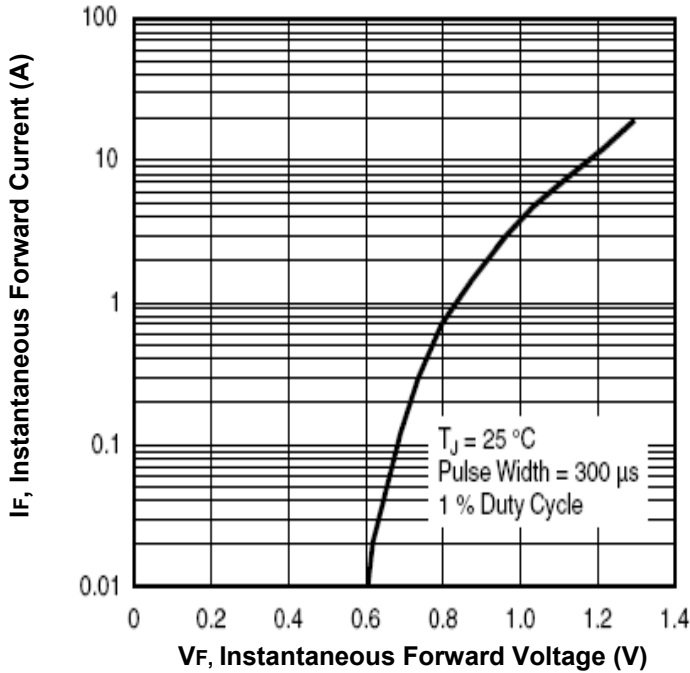


Fig.4-Typical Reverse Leakage Characteristics per leg

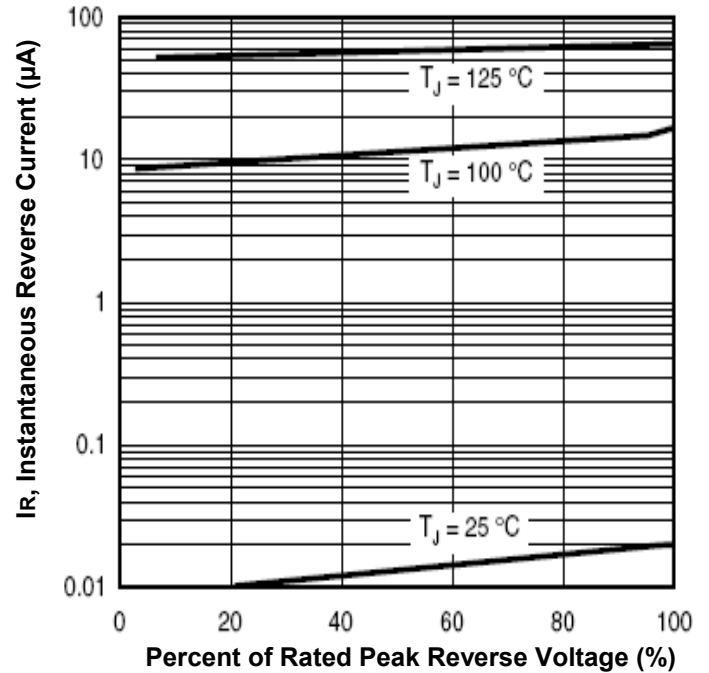
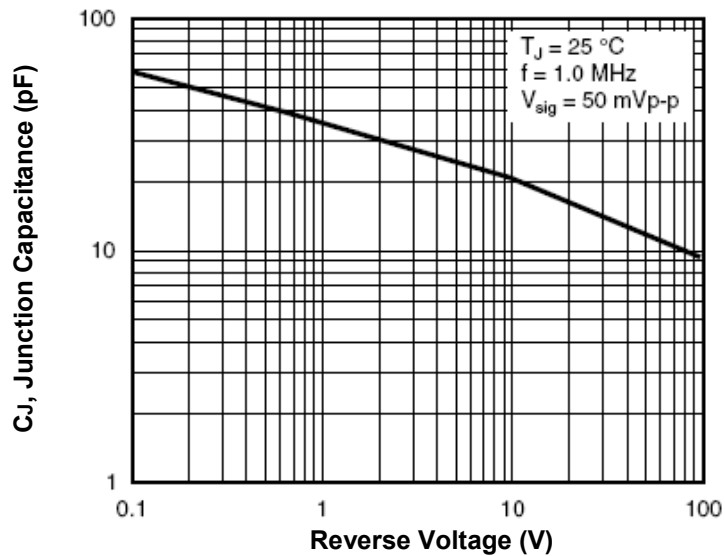


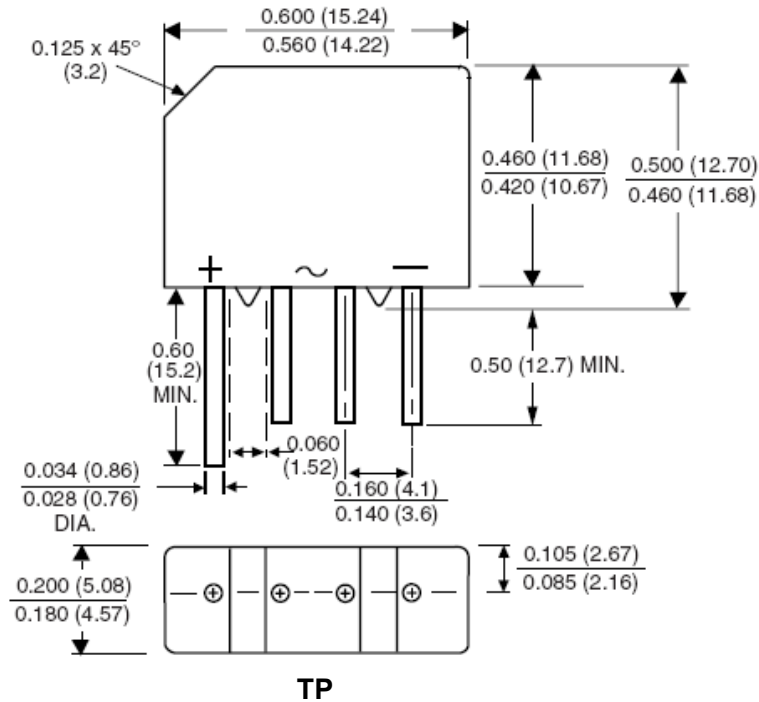
Fig.5- Typical Junction Capacitance per leg



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Dimensions in inch (mm)



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