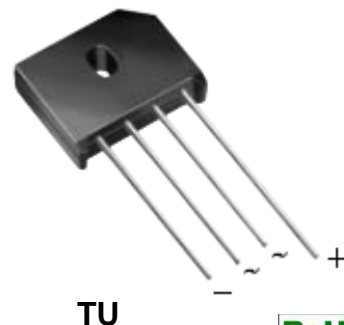


8A Glass Passivated Bridge Rectifier

Features

- Glass passivated chip junction
- Low forward voltage drop
- High reliability
- Ideal for printed circuit boards
- High temperature soldering guaranteed: 250° C/10 seconds at 5lbs.(2.3kg) tension
- RoHS compliant



Mechanical Data

Case:	TU, Epoxy meets UL 94V-0 flammability rating
Terminals:	Plated leads solderable per MIL-STD-202, Method 208
Polarity:	Polarity symbols marked on case
Mounting Torque:	8.8 in. – lbs. max.
Weight:	8.0 grams (approx)

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

Symbols	Parameter	TU 800G	TU 801G	TU 802G	TU 804G	TU 806G	TU 808G	TU 810G	Unit	Conditions
VRRM	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
VRMS	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
VDC	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
IF(AV)	Maximum Average Forward Rectified Current (Note 1)	8.0							A	TA=100°C
IFSM	Peak Forward Surge Current	300							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
VF	Maximum Instantaneous Forward Voltage Drop per leg	1.0							V	IF=8.0A
IR	Maximum DC Reverse Current at Rated DC Blocking Voltage per leg	10							µA	TA=25°C
		500								TA=125°C

8A Glass Passivated Bridge Rectifier

TU800G - TU810G

Symbols	Parameter	TU 800G	TU 801G	TU 802G	TU 804G	TU 806G	TU 808G	TU 810G	Unit	Conditions
I_{Tt}	Rating for Fusing (1ms<t<8.3ms)	374							A ² S	
$R_{\theta JA}$	Typical Thermal Resistance per leg	18							°C/W	(Note 2)
$R_{\theta JC}$	Typical Thermal Resistance per leg	3.0							°C/W	(Note 1)
T_J, T_{STG}	Operating and Storage Temperature Range	-55 to 150							°C	

Note:

1. Mounted on 75 x 75 x 3.0mm Al. plate
2. Mounted on PCB at 9.5mm lead length with 12mm² copper pad
3. Single Phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Rating and Characteristic Curves

Fig.1- Forward Current Derating Curve

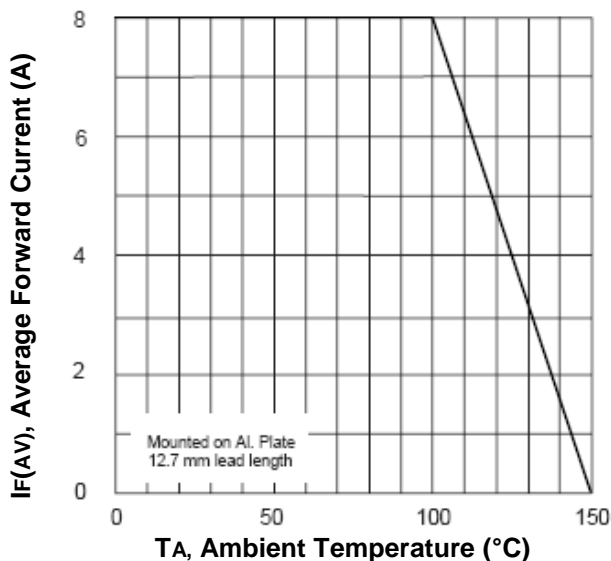
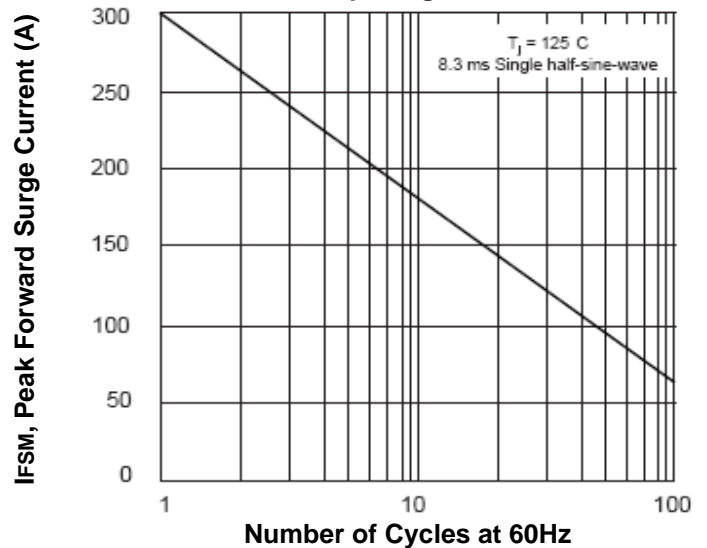


Fig.2-Max Non-Repetitive Peak Forward Surge Current per leg



8A Glass Passivated Bridge Rectifier

TU800G - TU810G

Fig.3- Typical Forward Characteristics, per leg

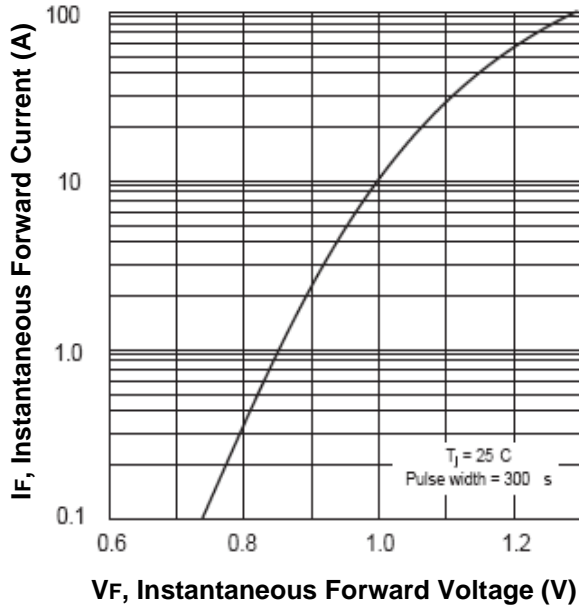


Fig.4-Typical Reverse Characteristics per leg

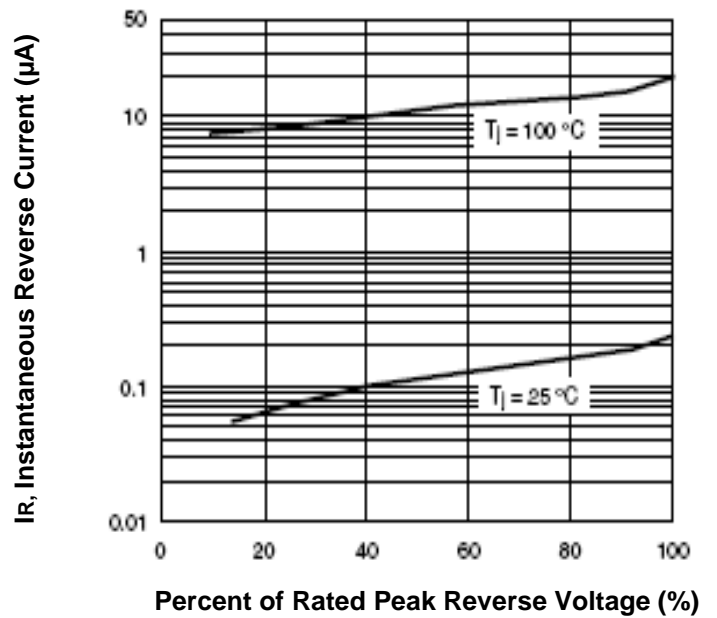
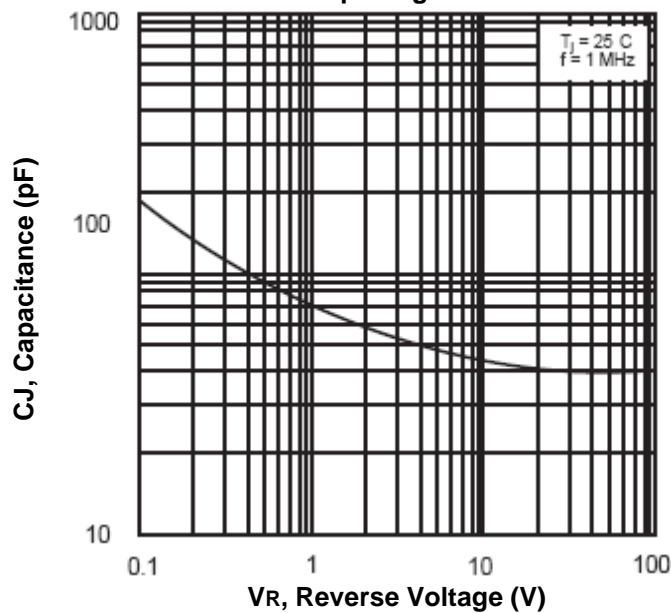


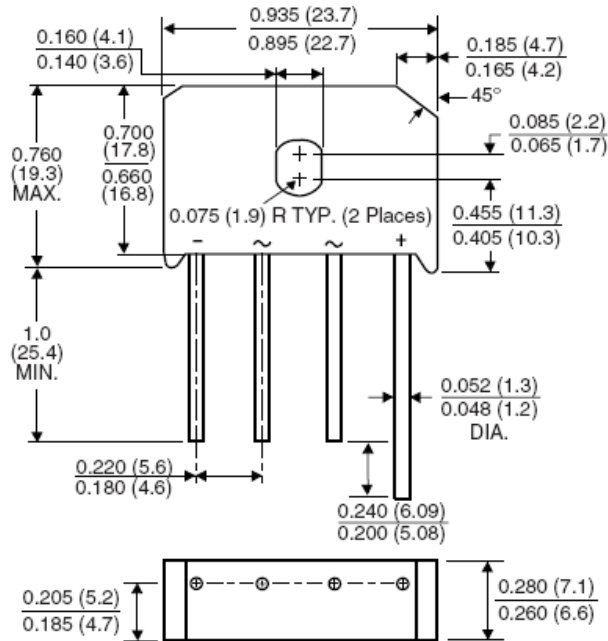
Fig.5-Typical Junction Capacitance, per leg



8A Glass Passivated Bridge Rectifier

TU800G - TU810G

Dimensions in inch (mm)



TU

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