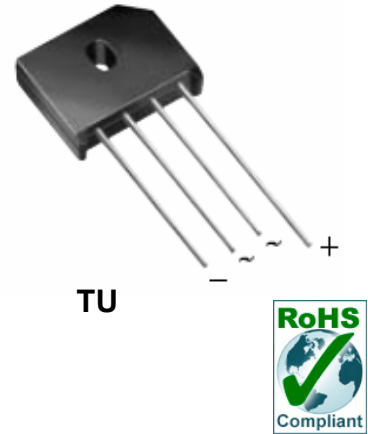


10A Glass Passivated Bridge Rectifier

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 ($T_{amb}=25^{\circ}C$)

Symbols	Parameter	TU 1000G	TU 1001G	TU 1002G	TU 1004G	TU 1006G	TU 1008G	TU 1010G	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 (Note 1)	10							A	T _A =100°C
I_{FSM}	Peak Forward Surge Current	300							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
V_F	Maximum Instantaneous Forward Voltage Drop per leg	1.0							V	I _F =10.0A
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage per leg	10							μA	T _A =25°C
		500								T _A =125°C

10A Glass Passivated Bridge Rectifier

TU1000G - TU1010G

Symbols	Parameter	TU 1000G	TU 1001G	TU 1002G	TU 1004G	TU 1006G	TU 1008G	TU 1010G	Unit	Conditions
I^2_t	Rating for Fusing (1ms<t<8.3ms)	374							A ² S	
$R_{\theta JA}$	Typical Thermal Resistance per leg	16							°C/W	(Note 2)
$R_{\theta JC}$	Typical Thermal Resistance per leg	2.8							°C/W	(Note 1)
T_J, T_{STG}	Operating and Storage Temperature Range	-55 to 150							°C	

Note:

1. Mounted on 85 x 85 x 1.5mm 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

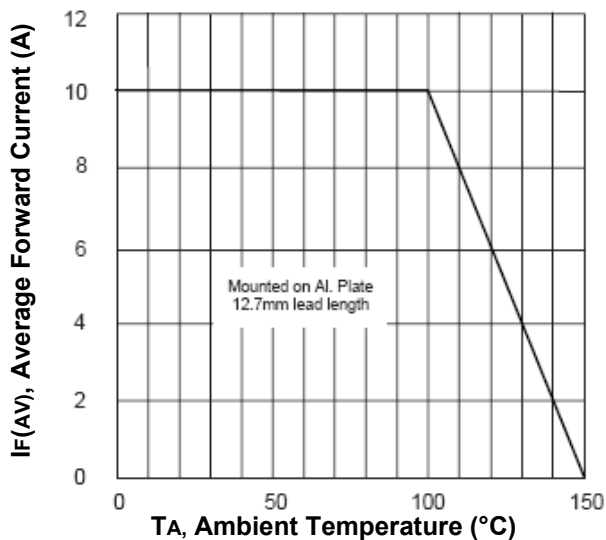
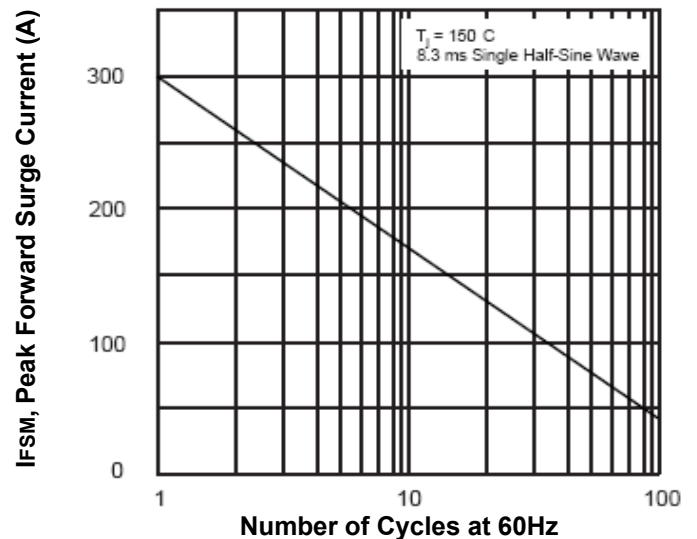


Fig.2-Max Non-Repetitive Peak Forward Surge Current per leg



10A Glass Passivated Bridge Rectifier

TU1000G - TU1010G

Fig.3- Typical Forward Characteristics,
per leg

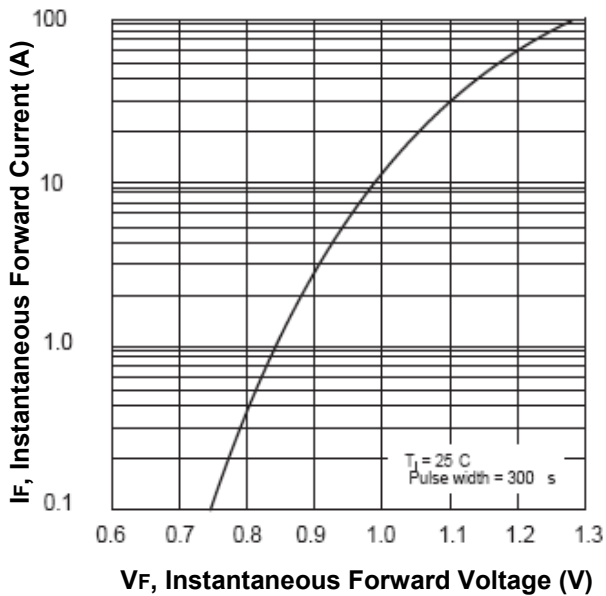


Fig.4-Typical Reverse Characteristics
per leg

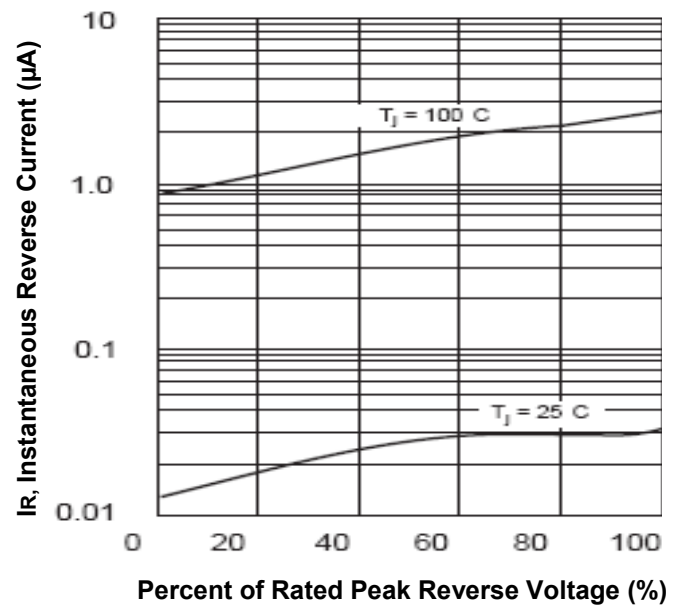
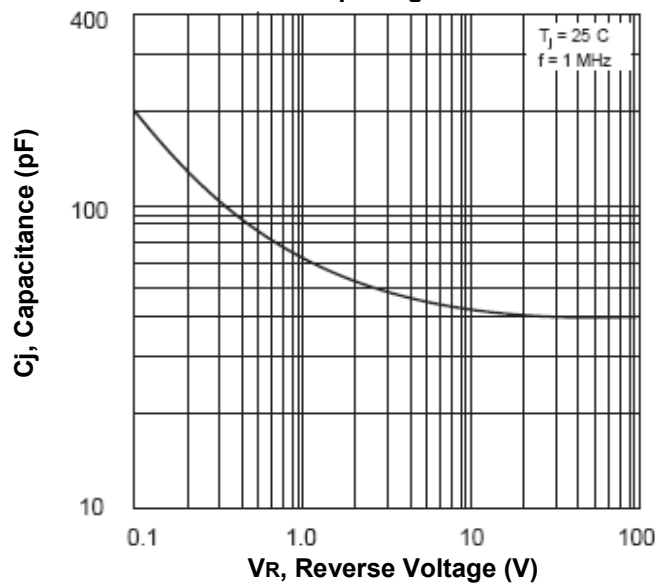


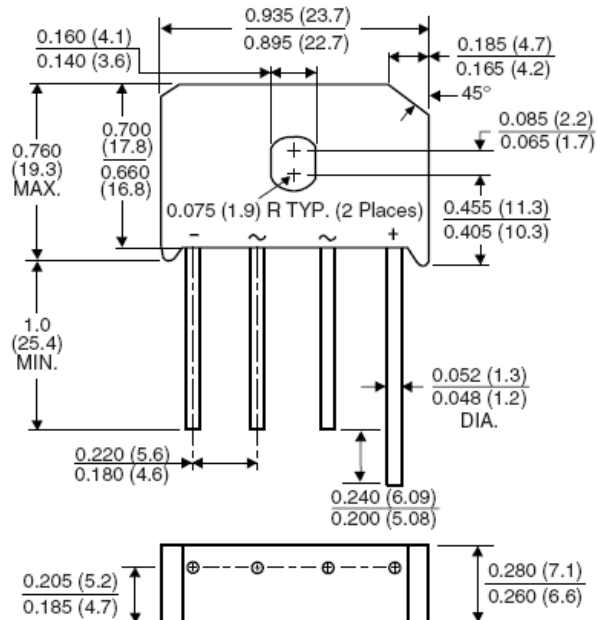
Fig.5-Typical Junction Capacitance,
per leg



10A Glass Passivated Bridge Rectifier

TU1000G - TU1010G

Dimensions in inch (mm)



TU

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