



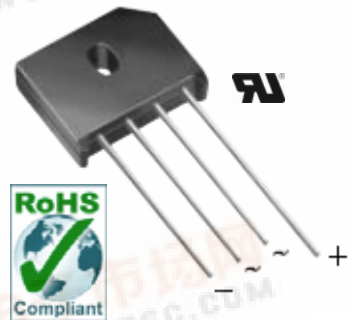
8 AMP SINGLE-PHASE BRIDGE RECTIFIER

TU800 - TU810

8 AMP Single-Phase Bridge Rectifier

Features

- Low Forward Voltage Drop
- High Reliability
- High Surge Current Capability
- High Temperature Soldering Guaranteed:
260° C/10 seconds, 1.375" (9.5mm) lead length
- RoHS compliant



Mechanical Data

Case:	Molded Plastic
Terminals:	Plated Leads Solderable per MIL-STD-202E, Method 208C
Polarity:	As Marked on Body
Weight:	8.0 grams (approx)

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

Symbols	Parameter	TU 800	TU 801	TU 802	TU 804	TU 606	TU 808	TU 810	Unit
V _{RRM}	Peak Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
V _{DC}	DC Blocking Voltage								
V _{RWM}	Working Peak Reverse Voltage								
V _{R(RMS)}	RMS Reverse Voltage	35	70	140	280	420	560	700	V
I _{F(AV)}	Average Rectified Output Current at T _C =100°C	8.0							A
I _{FSM}	Non-Repetitive Peak Forward Surge Current single sine-wave superimposed on rated load	300							A
V _F	Forward Voltage per element at I _F =8.0A	1.0							V
I _R	Peak Reverse Current At Rated DC blocking voltage	10 at T _A =25°C							μA
		1000 at T _A =100°C							
C _J	Typical Junction Capacitance	200							pF
T _J ,T _{STG}	Operating and Storage Temperature Range	-55 to 150							°C

Note: Single Phase, half wave, 60Hz, resistive or inductive load
For Capacitive load derate current by 20%

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Rating and characteristic curves

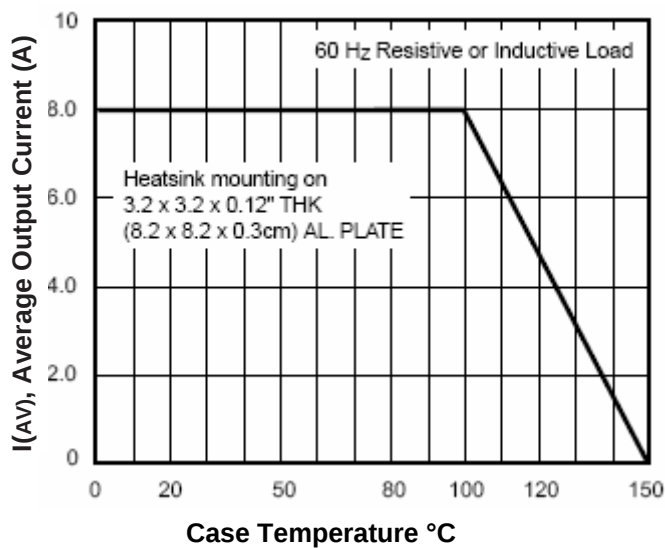


Fig.1- Forward Current Derating Curve

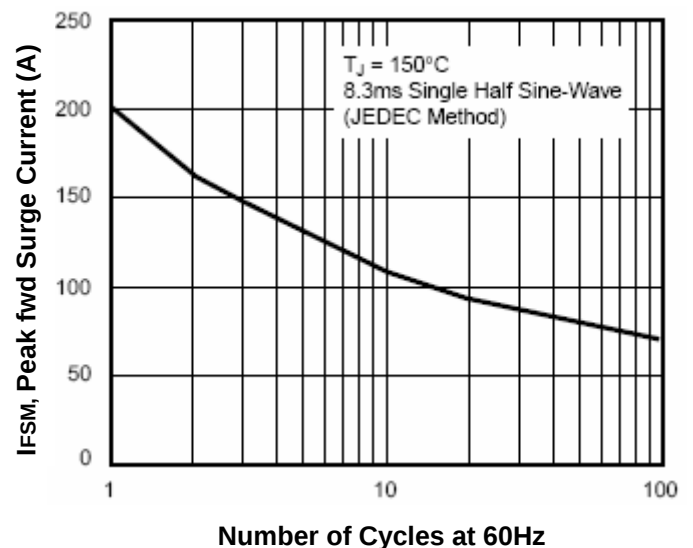


Fig.2- Max Peak Forward Surge Current

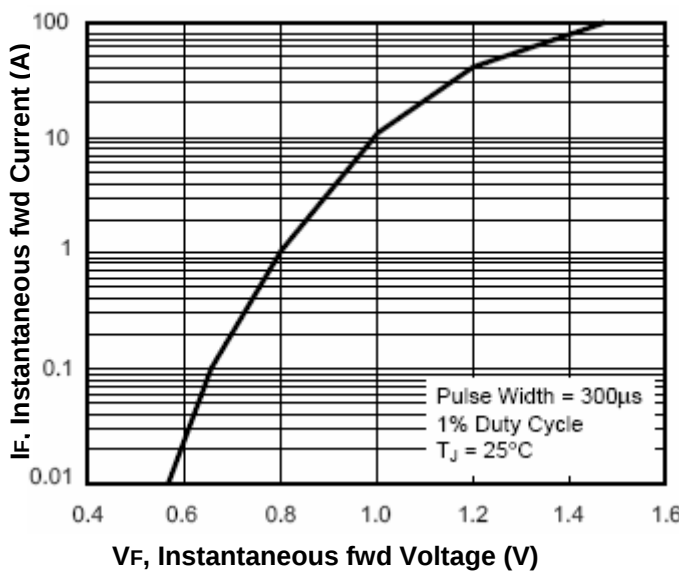


Fig.3- Typical Forward Characteristics per element

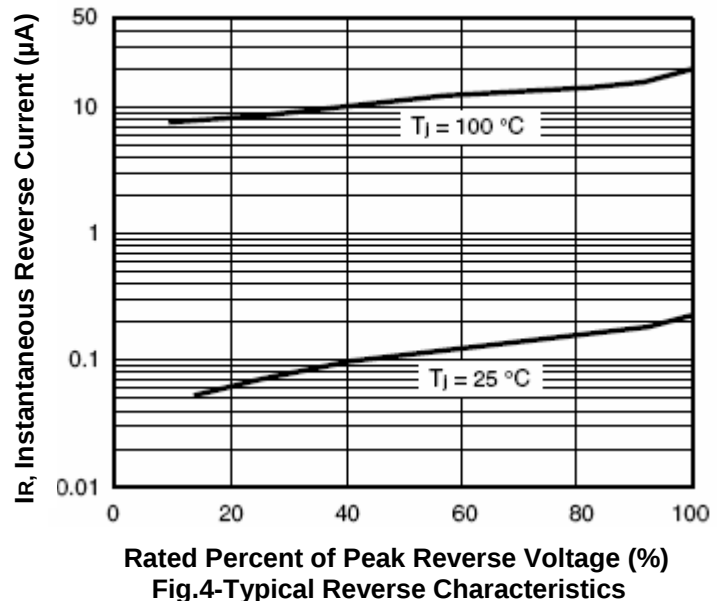


Fig.4- Typical Reverse Characteristics

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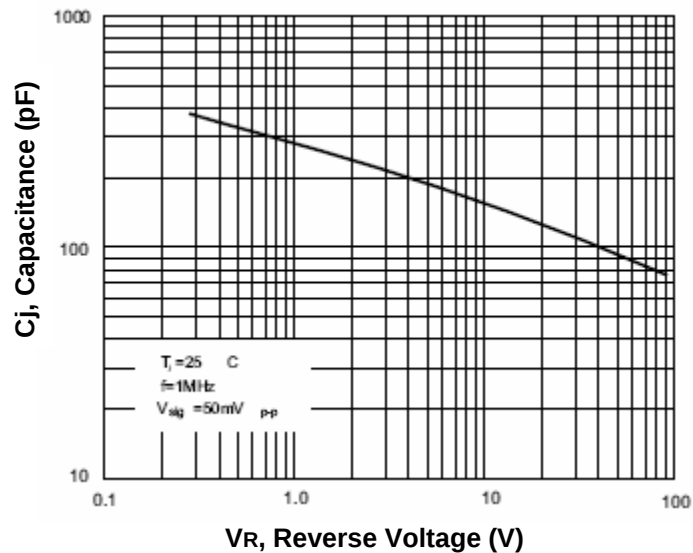
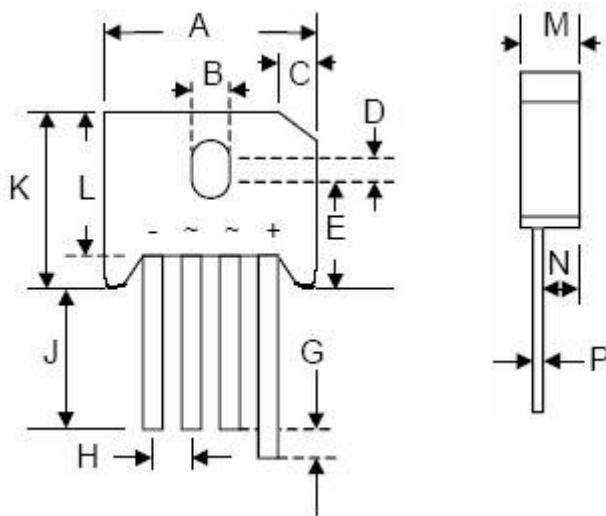


Fig.4-Typical Junction Capacitance per Element

Dimensions (mm)



Dim	Min	Max
A	22.7	23.7
B	3.8	4.1
C	4.2	4.7
D	1.7	2.2
E	10.3	11.3
G	4.5	6.8
H	4.6	5.6
J	25.4	----
K	----	19.3
L	16.8	17.8
M	6.6	7.1
N	4.7	5.2
P	1.2	1.3
All Dimensions in mm		

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