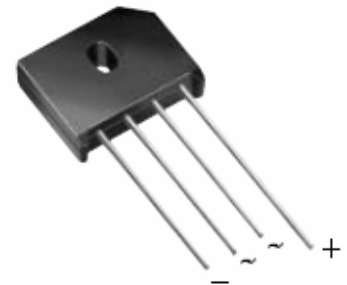


## 4A Bridge Rectifiers

### Features

- Low forward voltage drop
- High current capability
- High reliability
- High forward surge current capability
- Ideal for printed circuit board
- High temperature soldering guaranteed:  
260° C/10 seconds, / .375" (9.5mm) lead length at 5 lbs.(2.3kg) tension
- RoHS compliant



TU



### Mechanical Data

<b>Case:</b>	Molded plastic
<b>Terminals:</b>	Plated leads solderable per MIL-STD-202E, Method 208C
<b>Polarity:</b>	As marked on body
<b>Mounting Torque:</b>	8.8 in. – lbs. max.
<b>Weight:</b>	0.3 ounces, 8.0 grams

### Maximum Ratings And Electrical Characteristics (T<sub>amb</sub>=25°C)

Symbols	Parameter	TU 400	TU 401	TU 402	TU 404	TU 406	TU 408	TU 410	Unit	Conditions
<b>V<sub>RRM</sub></b>	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
<b>V<sub>RMS</sub></b>	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
<b>V<sub>DC</sub></b>	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
<b>I<sub>F(AV)</sub></b>	Maximum Average Forward Rectified Current (Note 1)	4.0							A	T <sub>C</sub> =100°C
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current	200							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
<b>V<sub>F</sub></b>	Maximum Instantaneous Forward Voltage Drop per leg	1.0							V	I <sub>F</sub> =4.0A
<b>I<sub>R</sub></b>	Maximum DC Reverse Current at Rated DC Blocking Voltage per leg	5.0							µA	T <sub>A</sub> =25°C
		1.0							mA	T <sub>A</sub> =100°C

# 4A Bridge Rectifiers

## TU400 - TU410

Symbols	Parameter	TU 400	TU 401	TU 402	TU 404	TU 406	TU 408	TU 410	Unit	Conditions
$I_t$	Rating for Fusing (1ms<t<8.3ms)	166							A <sup>2</sup> S	
$R_{\theta JA}$	Typical Thermal Resistance per leg	19							°C/W	(Note 2)
$R_{\theta JC}$	Typical Thermal Resistance per leg	4.0							°C/W	(Note 1)
$T_J, T_{STG}$	Operating and Storage Temperature Range	-55 to 150							°C	

### Note:

- Unit mounted on 2.0" x 1.6" x 0.3" thick (5.0 x 4.0 x 0.8cm) Al. plate.
- Unit mounted in free air, no heatsink, P.C.B at 0.375" (9.5mm) lead length with 0.5" x 0.5" (12 x 12mm) copper pads
- Single Phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

### Rating and characteristic curves

Fig.1- Derating Curve Output Rectified Current

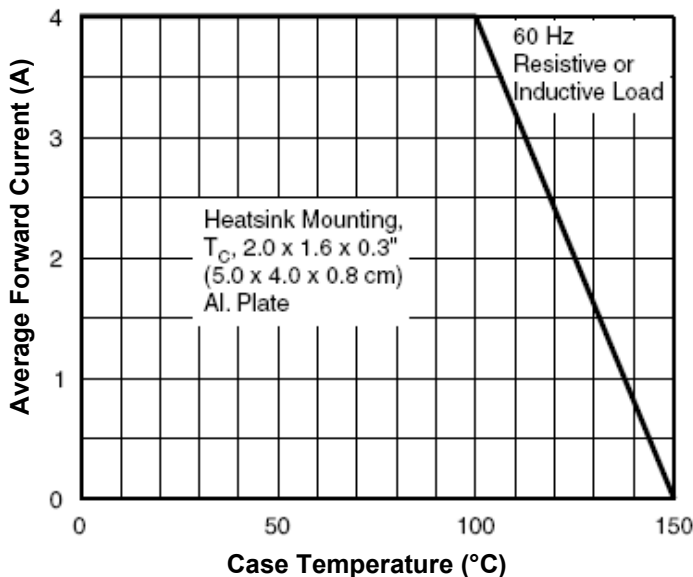
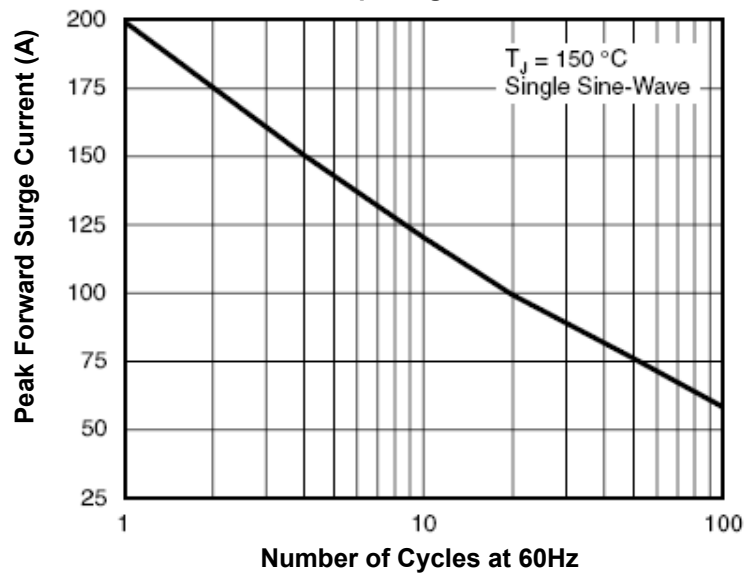


Fig.2-Max Non-Repetitive Peak Forward Surge Current per leg



# 4A Bridge Rectifiers

## TU400 - TU410

Fig.3- Typical Instantaneous Forward Characteristics, per leg

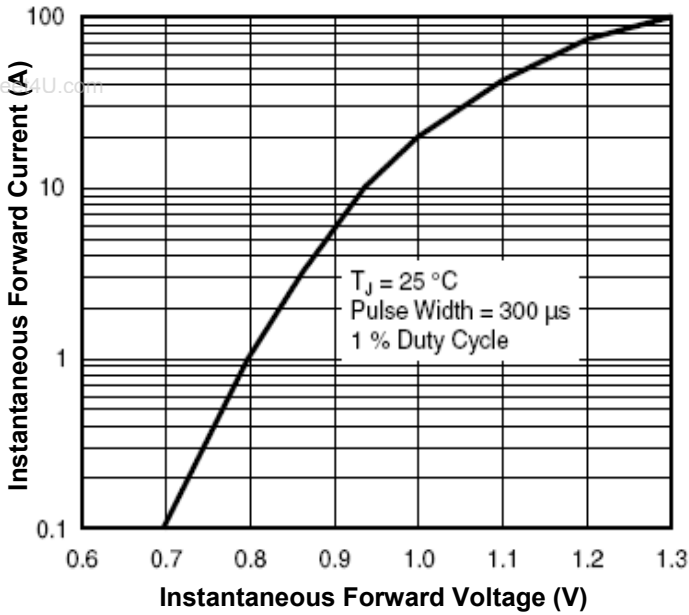


Fig.4-Typical Reverse Leakage Characteristics per leg

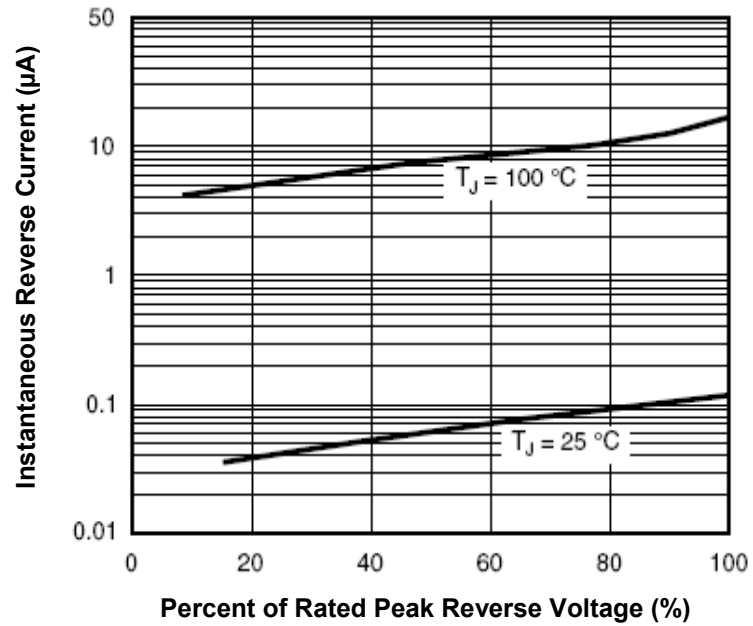
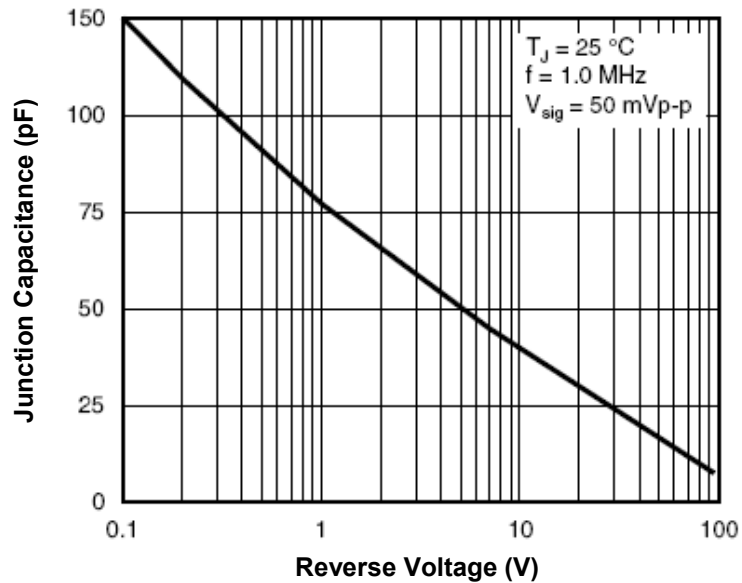
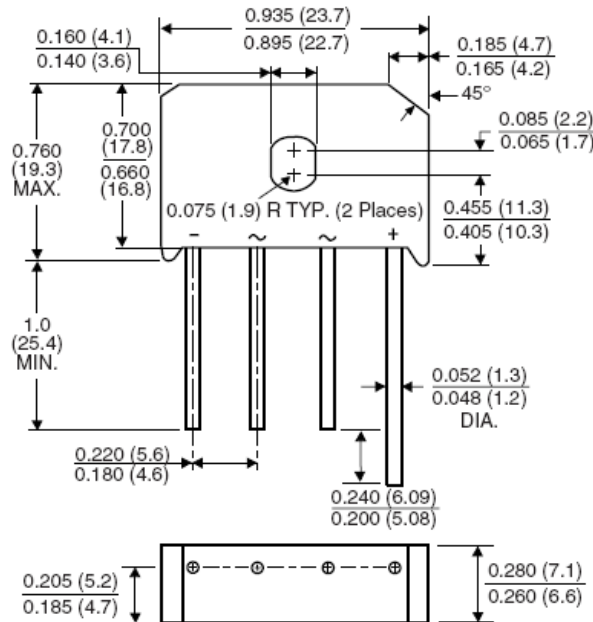


Fig.5-Typical Junction Capacitance per leg



### Dimensions in inch (mm)



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