



# TS15P01G THRU TS15P07G

Single Phase 15.0 AMPS. Glass Passivated Bridge Rectifiers



Voltage Range  
50 to 1000 Volts  
Current  
15.0 Amperes

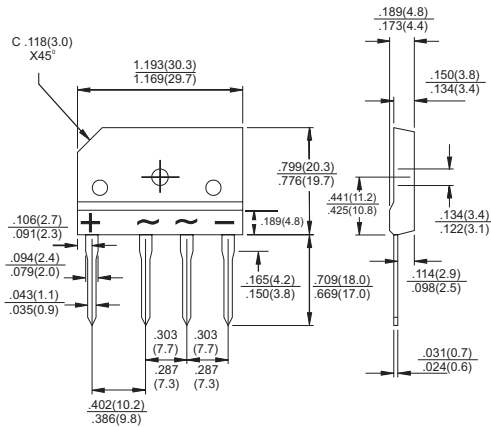
## Features

- ✧ UL Recognized File # E-96005
- ✧ Glass passivated junction
- ✧ Ideal for printed circuit board
- ✧ Reliable low cost construction
- ✧ Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- ✧ Surge overload rating to 200 amperes peak
- ✧ High case dielectric strength of 2000 V<sub>RMS</sub>

## Mechanical Data

- ✧ Case: Molded plastic
- ✧ Terminals: Leads solderable per MIL-STD-750, Method 2026
- ✧ Weight: 0.3 ounce, 8 grams
- ✧ Mounting torque: 8.17 in. lbs. max.

## TS-6P



Dimensions in inches and (millimeters)

## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

| Type Number                                                                                               | Symbol            | TS15P<br>01G | TS15P<br>02G | TS15P<br>03G | TS15P<br>04G | TS15P<br>05G | TS15P<br>06G | TS15P<br>07G | Units    |
|-----------------------------------------------------------------------------------------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------|
| Maximum Recurrent Peak Reverse Voltage                                                                    | V <sub>RRM</sub>  | 50           | 100          | 200          | 400          | 600          | 800          | 1000         | V        |
| Maximum RMS Voltage                                                                                       | V <sub>RMS</sub>  | 35           | 70           | 140          | 280          | 420          | 560          | 700          | V        |
| Maximum DC Blocking Voltage                                                                               | V <sub>DC</sub>   | 50           | 100          | 200          | 400          | 600          | 800          | 1000         | V        |
| Maximum Average Forward Rectified Current<br>See Fig. 1                                                   | I <sub>(AV)</sub> | 15.0         |              |              |              |              |              |              | A        |
| Peak Forward Surge Current, 8.3 ms Single<br>Half Sine-wave Superimposed on Rated<br>Load (JEDEC method)  | I <sub>FSM</sub>  | 200          |              |              |              |              |              |              | A        |
| Maximum Instantaneous Forward Voltage<br>@ 15A                                                            | V <sub>F</sub>    | 1.1          |              |              |              |              |              |              | V        |
| Maximum DC Reverse Current @ T <sub>A</sub> =25°C<br>at Rated DC Blocking Voltage @ T <sub>A</sub> =125°C | I <sub>R</sub>    | 10.0<br>500  |              |              |              |              |              |              | µA<br>µA |
| Typical Thermal Resistance (Note)                                                                         | R <sub>θJC</sub>  | 0.8          |              |              |              |              |              |              | °C/W     |
| Operating Temperature Range                                                                               | T <sub>J</sub>    | -55 to +150  |              |              |              |              |              |              | °C       |
| Storage Temperature Range                                                                                 | T <sub>STG</sub>  | -55 to +150  |              |              |              |              |              |              | °C       |

Note: Thermal resistance from Junction to Case with Device Mounted on 5" x 7" x 0.25" AL-Plate Heatsink.

## RATINGS AND CHARACTERISTIC CURVES (TS15P01G THRU TS15P07G)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

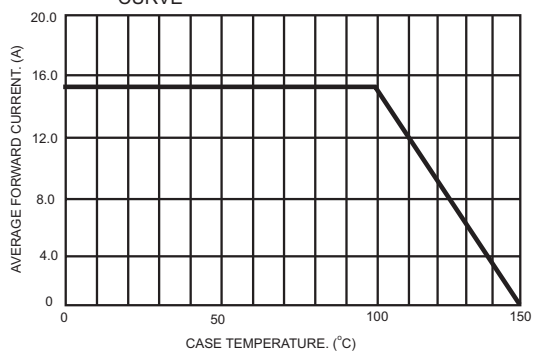


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

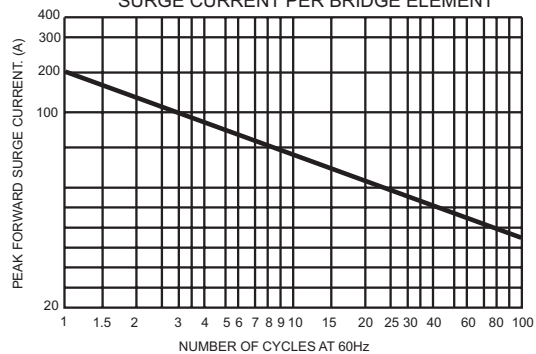


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

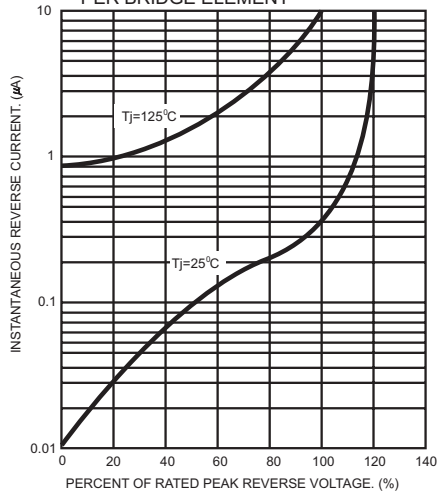


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

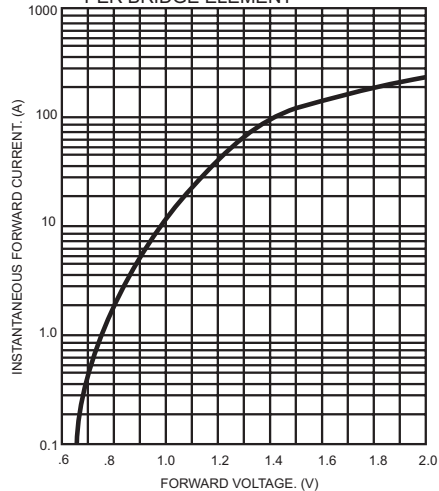
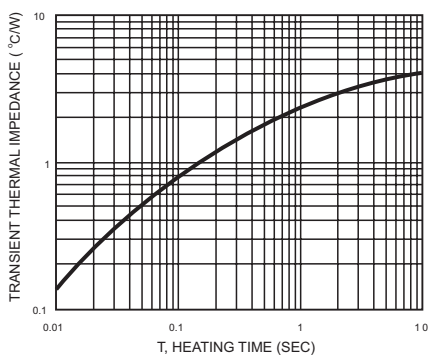


FIG.5- TYPICAL TRANSIENT THERMAL IMPEDANCE



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