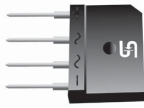




TS20P01G THRU TS20P07G

Single Phase 20.0 AMPS. Glass Passivated Bridge Rectifiers



Voltage Range
50 to 1000 Volts
Current
20.0 Amperes

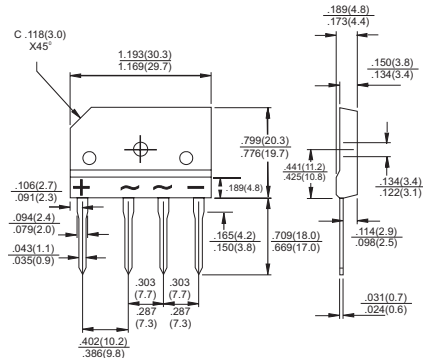
Features

- ✧ 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 250 amperes peak
- ✧ High case dielectric strength of 2000V_{RMS}

Mechanical Data

- ✧ Case: Molded plastic
- ✧ Terminals: Leads solderable per MIL-STD-750, Method 2026
- ✧ Weight: 0.3 ounce, 8 grams
- ✧ Mounting torque: 8.71 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 | TS20P01G | TS20P02G | TS20P03G | TS20P04G | TS20P05G | TS20P06G | TS20P07G | Units |
|---|--------------|----------|----------|----------|----------|----------|----------|----------|
| Maximum Recurrent Peak Reverse Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current See Fig. 1 | 20.0 | | | | | | | A |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | 250 | | | | | | | A |
| Maximum Instantaneous Forward Voltage @ 20.0A | 1.1 | | | | | | | V |
| Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =125°C | 10.0 500 | | | | | | | µA µA |
| Typical Thermal resistance (Note) R _{θJC} | 0.8 | | | | | | | °C/W |
| Operating Temperature Range T _J | -55 to +150 | | | | | | | °C |
| Storage Temperature Range T _{STG} | -55 to + 150 | | | | | | | °C |

Note: Thermal Resistance from Junction to Case with Device Mounted on 300mm x 300mm x 1.6mm Cu Plate Heatsink.

RATINGS AND CHARACTERISTIC CURVES (TS20P01G THRU TS20P07G)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

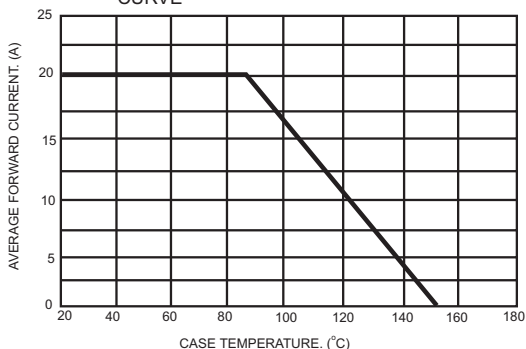


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

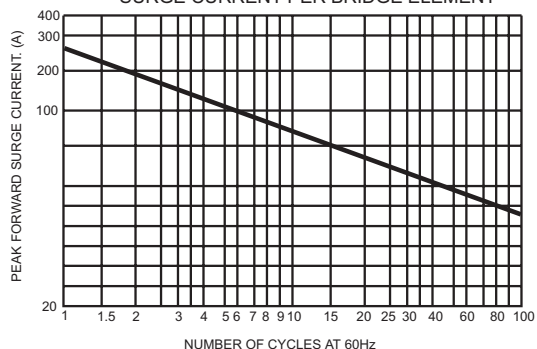


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

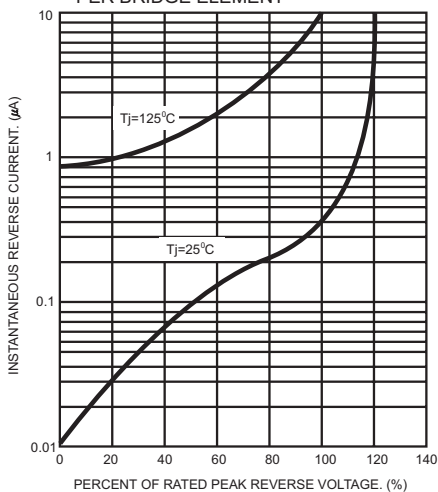


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

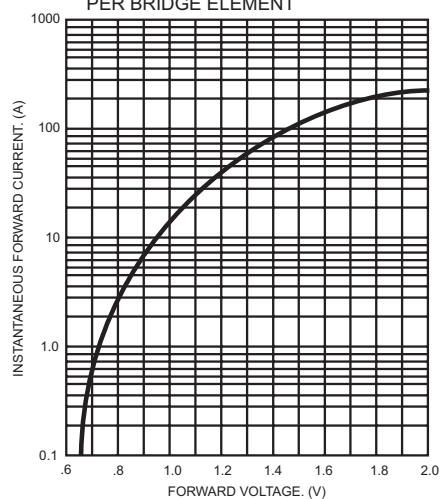


FIG.5- TYPICAL TRANSIENT THERMAL IMPEDANCE

