



HEP801 THRU HEP806

Isolation 8 A Glass Passivated High Efficiency Rectifiers

Voltage Range 50 to 600 Volts
Current 8.0 Amperes

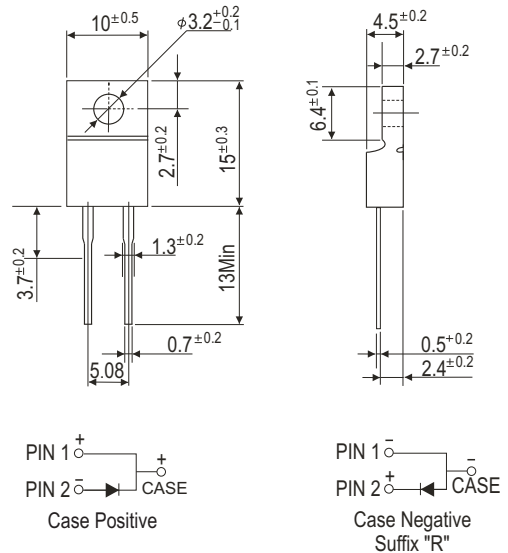
Features

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability

Mechanical Data

- * Case: molded plastic
- * Epoxy: UL94V-0 rate flame retardant
- * Terminals: Leads, solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity: As marked
- * High temperature soldering guaranteed:
250°C/ 0.25" (6.35mm) from case for 10 seconds
- * Mounting torque: 5 in - lbs. max.
- * Weight: 2.24 grams

ITO-220A



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 | HEP 801 | HEP 802 | HEP 803 | HEP 804 | HEP 805 | HEP 806 | Units |
|----------------------------------------------------------------------------------------------------|-------------|---------|---------|---------|---------|---------|-------|
| Maximum Recurrent Peak Reverse Voltage | 50 | 100 | 200 | 300 | 400 | 600 | V |
| Maximum RMS Voltage | 35 | 70 | 140 | 210 | 280 | 420 | V |
| Maximum DC Blocking Voltage | 50 | 100 | 200 | 300 | 400 | 600 | V |
| Maximum Average Forward Rectified Current, 375" (9.5mm) Lead Length @ T _c =100°C | 8.0 | | | | | | A |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | 125 | | | | | | A |
| Maximum Instantaneous Forward Voltage @ 8.0A | 1.0 | | | | 1.3 | 1.7 | V |
| Maximum DC Reverse Current @ T _a =25°C | 10.0 | | | | | | uA |
| At Rated DC Blocking Voltage @ T _a =125°C | 400 | | | | | | uA |
| Maximum Reverse Recovery Time (Note 1) | 50 | | | | | 80 | nS |
| Typical Junction Capacitance (Note 2) | 85 | | | | | 50 | pF |
| Typical Thermal Resistance R _θ JC (Note 3) | 2.2 | | | | | | °C/W |
| Operating Temperature Range T _J | -55 to +150 | | | | | | °C |
| Storage Temperature Range T _{STG} | -55 to +150 | | | | | | °C |

Notes:

1. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.
3. Thermal Resistance from Junction to Case Mounting on Heatsink.

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RATINGS AND CHARACTERISTIC CURVES (HEP801 THRU HEP806)

FIG . 1 -REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

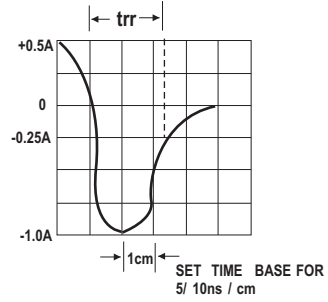
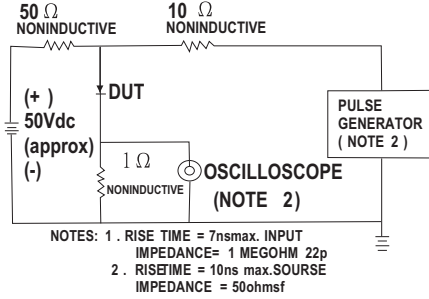


FIG . 2 -MAXIMUM AVERAGE FORWARD CURRENT DERATING

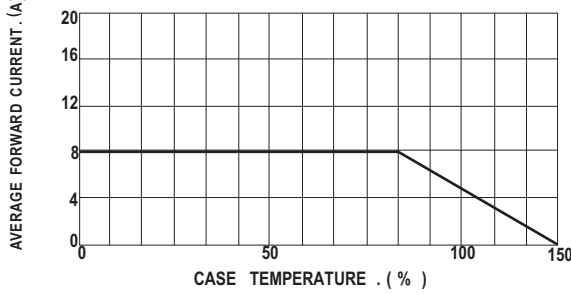


FIG . 3 -TYPICAL REVERSE CHARACTERISTICS

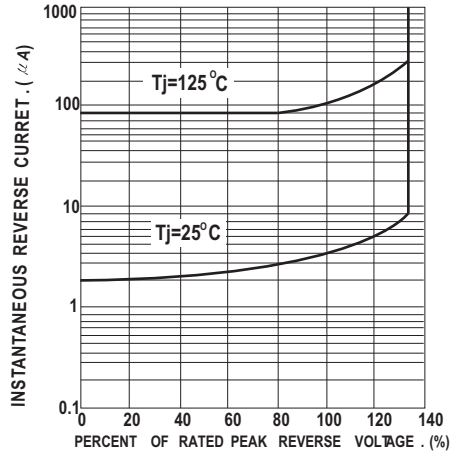


FIG . 4 -MAXIMUM NON - REPETITIVE FORWARD SURGE CURRENT

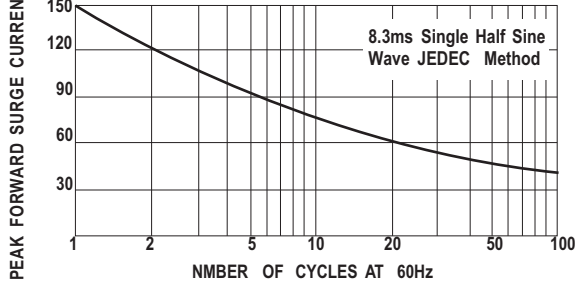


FIG . 6 -TYPICAL FORWARD CHARACTERISTICS

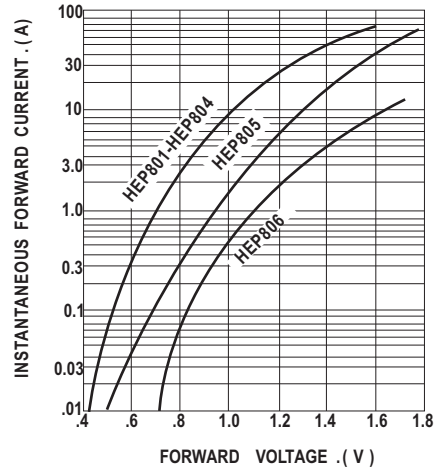


FIG . 5 -TYPICAL JUNCTION CAPACITANCE

