



HER3001 THRU HER3006

30 A Glass Passivated High Efficiency Rectifiers

Voltage Range 50 to 600 Volts
Current 30.0 Amperes

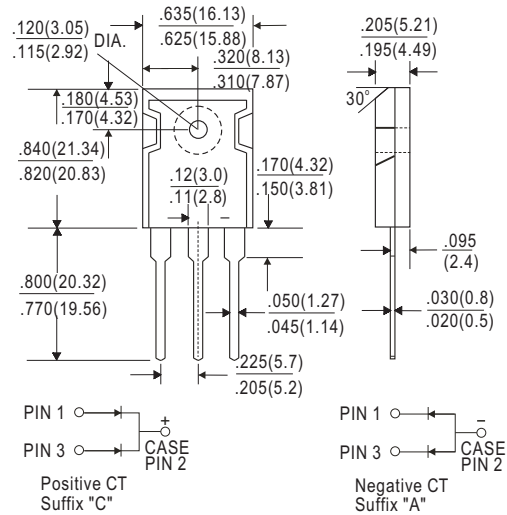
Features

- * Dual rectifier construction, positive center-tap
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Glass passivated chip junctions
- * Superfast recovery time, high voltage
- * Low forward voltage, high current capability
- * Low thermal resistance
- * Low power loss, high efficiency
- * High temperature soldering guaranteed: 250°C, .16"(4.06mm) from case for 10 seconds

Mechanical Data

- * Case: molded plastic
- * Terminals: Leads solderable per MIL-STD-750. Method 2026
- * Polarity: As marked
- * Mounting position: Any
- * Mounting torque: 10in-lbs. Max.
- * Weight: 5.6 grams

TO-3P



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60HZ, resistive or inductive load. For capacitive load, derate current by 20%

| Type Number | HER 3001 | HER 3002 | HER 3003 | HER 3004 | HER 3005 | HER 3006 | 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 @ TC=100°C | 30.0 | | | | | | A |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | 300 | | | | | | A |
| Maximum Instantaneous Forward Voltage @ 15.0A | 1.0 | | | 1.3 | | 1.7 | V |
| Maximum DC Reverse Current @ Tc=25°C | 10.0 | | | | | | uA |
| At Rated DC Blocking Voltage @ Tc=125°C | 100 | | | | | | uA |
| Typical Reverse Recovery Time (Note 2) @ Tj=25°C | 50 | | | | | 80 | nS |
| Typical Junction Capacitance (Note 1) | 175 | | | | | 145 | pF |
| Operating Temperature Range Tj | -55 to +150 | | | | | | °C |
| Storage Temperature Range Tstg | -55 to +150 | | | | | | °C |

Notes:

1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C..
2. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

[Http://www.upm.com.tw](http://www.upm.com.tw)

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RATINGS AND CHARACTERISTIC CURVES (HER3001 THRU HER3006)

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

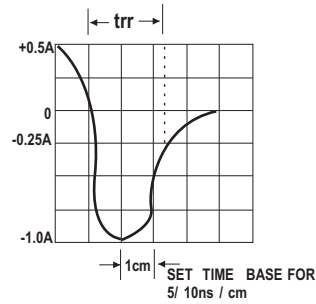
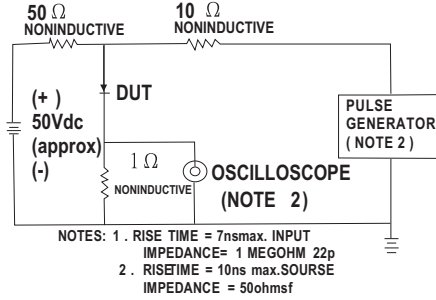


FIG. 2 - MAXIMUM AVERAGE FORWARD CURRENT DERATING

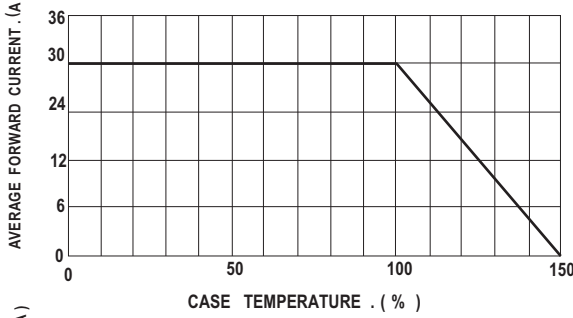


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS PER LEG

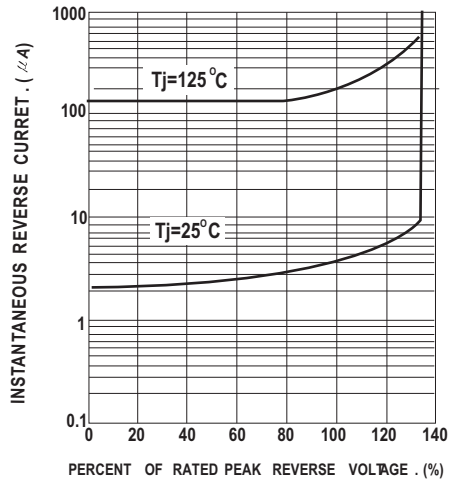


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

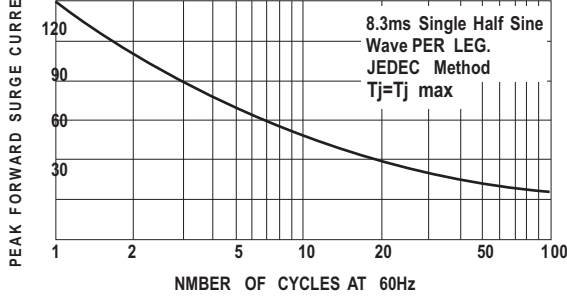


FIG. 6 - TYPICAL FORWARD CHARACTERISTICS

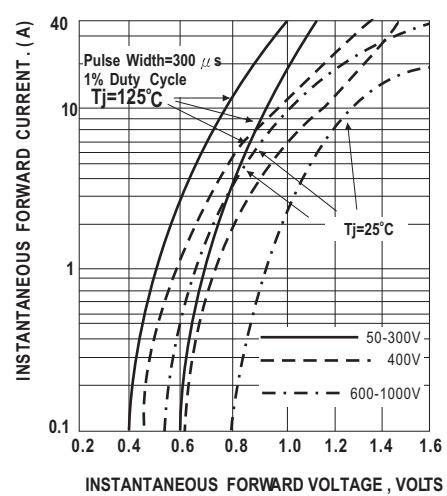


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG

