

HER3001PT - HER3008PT

TO-3P/TO-247AD

30.0 AMPS. Glass Passivated High Efficient Rectifiers





Features

- UL Recognized File # E-326243
- Dual rectifier construction, positive center-tap
- \diamond Plastic package has Underwriters Laboratory Flammability Classification 94V0
- 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: 260°C, 0.16"(4.06mm)from case for 10 seconds
- Green compound with suffix "G" on packing code & prefix "G" on datecode.

Mechanical Data

- Cases: TO-3P/TO-247AD molded plastic Terminals: Pure tin plated, lead free solderable per MIL-STD-750. Method 2026
- Polarity: As marked
- Mounting position: Any
- Mounting torque: 10in-lbs. Max.
- Weight: 5.6 grams

323(8.2) 840(21.3) 134(3.4) .118(3.0) 795(20.2) 775(19.7) PIN 3 O→ PIN 2 Positive CT

Dimensions in inches and (millimeters)



HER300XPT = Specific Device Code = Green Compound G

= Year = Work Week ww

Maximum Ratings and Electrical CharacteristicsRating 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	HER 3001PT	HER 3002PT	HER 3003PT	HER 3004PT	HER 3005PT	HER 3006PT	HER 3007PT	HER 3008PT	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _c =100°C	I F(AV)	30								А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	İFSM	300								А
Maximum Instantaneous Forward Voltage @15.0A	VF	1.0 1.3 1.7						V		
Maximum DC Reverse Current at Rated DC Blocking Voltage @TA =25 °C (Note 1) @ TA =125 °C	I R	10 500								uA uA
Maximum Reverse Recovery Time (Note 2) @T _J =25°C	Trr	50 80						nS		
Typical Junction Capacitance (Note 3)	Cj	175					145		pF	
Operating Temperature Range	TJ	-55 to +150							°C	
Storage Temperature Range	T _{STG}	-55 to +150							°C	

Notes: 1. Pulse Test with PW=300 usec,1% Duty Cycle

2. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, Recover to 0.25A.

3. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts.

Version: C10



RATINGS AND CHARACTERISTIC CURVES (HER3001PT THRU HER3008PT)











