

HER1601PT - HER1608PT



16.0 AMPS. Glass Passivated High Efficient Rectifiers TO-3P/TO-247AD

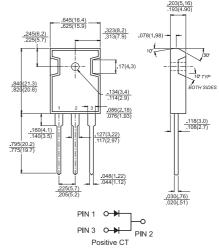


Features

- ♦ Dual rectifier construction, positive center-tap
- 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

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: 0.2 ounce, 5.6 grams



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	HER	HER	HER	HER	HER	HER	HER	HER	Units
5.	_	1601PT	1602PT	1603PT	1604PT	1605PT	1606PT	1607PT	1608PT	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _c =100 °C	I _(AV)	16								Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	200							Α	
Maximum Instantaneous Forward Voltage @8.0A	V _F	1.0 1.3					1.7		V	
Maximum DC Reverse Current @T _c =25 °C at Rated DC Blocking Voltage @ T _c =125 °C	I _R	10 500							uA uA	
Maximum Reverse Recovery Time (Note 2) $@T_J=25^{\circ}C$	Trr	50					80		nS	
Typical Junction Capacitance (Note 1)	Cj	85				60		pF		
Operating Temperature Range	TJ	-55 to +150					°C			
Storage Temperature Range	T _{STG}	-55 to +150						°C		

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

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



RATINGS AND CHARACTERISTIC CURVES (HER1601PT THRU HER1608PT)

