







Features

- ♦ UL Recognized File # E-326243
- ♦ Dual rectifier construction, positive center-tap
- Plastic package has Underwriters Laborator Flammability Classification 94V-0
- ♦ Glass passivated chip junction
- ♦ 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

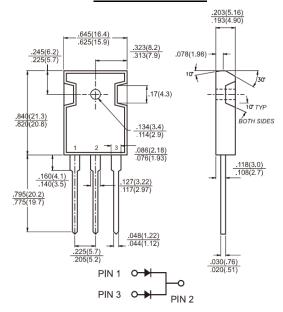
Mechanical Data

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

HER1601PT - HER1608PT

16.0AMPS. Glass Passivated High Efficient Rectifiers

TO-3P/TO-247AD



<u>Dimensions in inches and (millimeters)</u> Marking Diagram

SGYWW HER160XPT

HER160XPT = Specific Device Code

G = Green Compound
Y = Year
WW = Work Week

Maximum Ratings and Electrical Characteristics

Rating at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

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Type Number	Symbol	HER 1601PT	HER 1602PT	HER 1603PT	HER 1604PT	HER 1605PT	HER 1606PT	HER 1607PT	HER 1608PT	Units
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 @ $T_C=100^{\circ}C$	I _{F(AV)}	16								Α
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	200								Α
Maximum Instantaneous Forward Voltage (Note 1) @ 8 A	V _F	1.0 1.3				1.7			V	
Maximum DC Reverse Current @ T _A =25 ℃	10							uA		
at Rated DC Blocking Voltage @ T _A =125 ℃	I _R	I _R 500							uA	
Maximum Reverse Recovery Time (Note 2)	Trr	50 80							nS	
Typical Junction Capacitance (Note 3)	Cj	85					60		pF	
Operating Temperature Range	TJ	- 55 to + 150							°С	
Storage Temperature Range	T _{STG}	- 55 to + 150							°С	

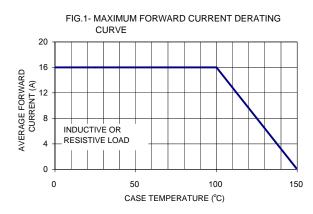
Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

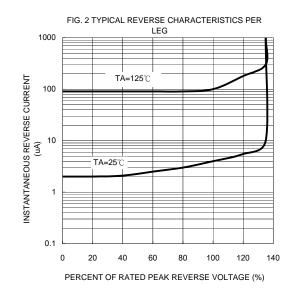
Note 2: Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

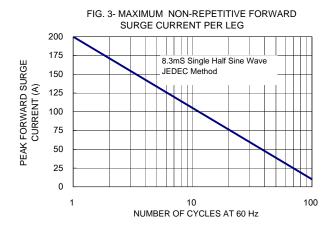
Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts

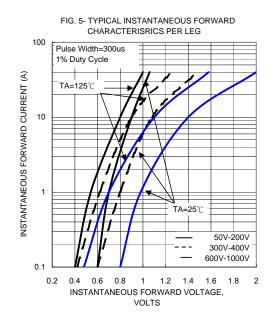


RATINGS AND CHARACTERISTIC CURVES (HER1601PT THRU HER1608PT)









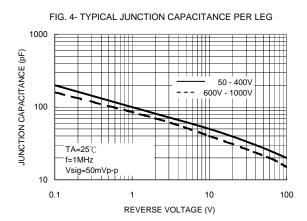


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

