SENSITRON

SEMICONDUCTOR

HER1601PT-G - HER1606PT-G

16A HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER

Data Sheet 4847, Rev. -

Green Products

Features

- Glass Passivated Die Construction
- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- Green Products in Compliance with the RoHS Directive

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-750, Method 2026
- Polarity: See Diagram
- Weight: 5.6 grams (approx.)
- Mounting Position: Any
- Marking: Type Number







Maximum Ratings and Electrical Characteristics @T_A=25^{°°}C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	HER 1601PT-G	HER 1602PT-G	HER 1603PT-G	HER 1604PT-G	HER 1605PT-G	HER 1606PT-G	HER 1607PT-G	HER 1608PT-G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	300	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	210	280	420	560	700	V
Average Rectified Output Current @T _c = 100°C	o	16								А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200							A	
Forward Voltage @l _F = 8.0A	Vfm	1.0 1.3 1.7						V		
Peak Reverse Current@TA = 25°CAt Rated DC Blocking Voltage@TA = 125°C	IRМ	10 500								μA
Reverse Recovery Time (Note 1)	trr	50 80					nS			
Typical Junction Capacitance (Note 2)	Cj	85 60					pF			
Operating and Storage Temperature Range	Tj, Tstg	-55 to +150							°C	

Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 1. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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Data Sheet 4846, Rev. –

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