

HER3001PT THRU HER3006PT

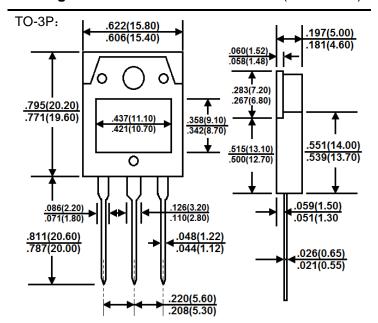
Glass Passivated High Efficient Rectifiers

Features

- * Glass passivated chip junctions
- * Superfast recovery time, high voltage
- * Low forward voltage, high current capability
- * Low thermal resistance
- * Low power loss, high efficiency



Package Outline Dimensions in inches (millimeters)



Mechanical Data

- * Case: TO-247AD (TO-3P)
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Pure tin plated, lead free. Solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity: As marked
- * High temperature soldering guaranteed: 260°C/10 seconds 16".,(4.06mm) from case.

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%.

Type Number	Symbol	HER 3001 PT	HER 3002 PT	HER 3003 PT	HER 3004 PT	HER 3005 PT	HER 3006 PT	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	480	V
Maximum D.C Blocking Voltage	V_{DC}	50	100	200	300	400	600	V
Maximum Average Forward Rectified Current	I _{F(AV)}	30					Α	
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	300				А		
Maximum Instantaneous Forward Voltage (Note 1) @ IF=15 A	V_{F}	1.0 1.3 1.7			1.7	V		
Maximum D.C Reverse Current @ T_J =25 $^{\circ}$ C at Rated D.C Blocking Voltage @ T_J =125 $^{\circ}$ C	I _R	10 500				μA		
Maximum Reverse Recovery Time (Note 2)	Trr	50 80			nS			
Typical Junction Capacitance (Note 3)	Cj	175 145			pF			
Typical Thermal Resistance	$R_{ heta JC}$	1.4				°C/W		
Operating and Storage Temperature Range	T _J /T _{STG}	-55 to +150				$^{\circ}\!\mathbb{C}$		

Note:1 Pulse Test with PW=300 usec, 1% Duty Cycle 2 Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

3. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

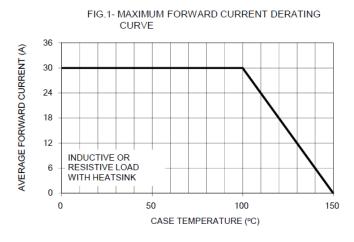
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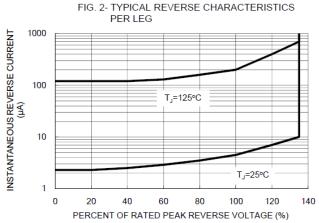


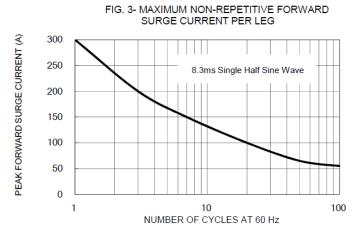
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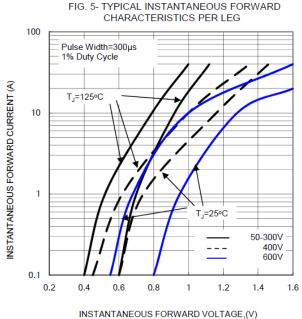
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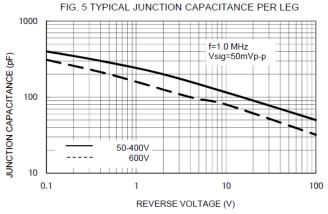
Ratings and Characteristic Curves

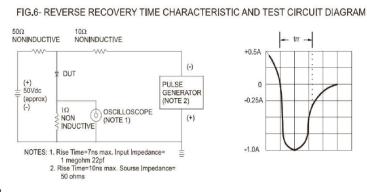












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Ordering Information

Part No.	Package	Packing
HER3001PT~HER3006PT	TO-3P	30pcs/Tube

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