HER300XPT SERIES

GLASS PASSIVATED HIGH EFFICENCY RECTIFIER

产

品

规

确

格

认

书

HER3001PT THRU HER3008PT

GLASS PASSIVATED HIGH EFFICIENCY RECTIFIER



REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 30.0 AMPERE

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O ctilizing Flame Retardant Epoxy Molding Compound.
- · Dual rectifier construction, positive center-tap
- · Low forward voltage, high current capability
- · Low thermal resistance
- · Ultra fast recovery times, high voltage.
- · Low power loss, high efficiency

MECHANICAL DATA

Case: Molded plastic, TO-3P/TO-247AD Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202

method 208 guaranteed Polarity: As marked Mounting position: Any Weight: 0.2ounce, 5.6gram

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by $20\%\,.$

	Symbols	HER3001PT	HER3002PT	HER3003PT	HER3004PT	HER3005PT	HER3006PT	HER3007PT	HER3008PT	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	_	30.0								Amp
at T _C =100℃	I _(AV)									
Peak Forward Surge Current,										
8.3ms single half-sine-wave	I _{FSM} 300								Amp	
superimposed on rated load (JEDEC method)										
Maximum Forward Voltage at 15.0A and T _A =25℃	$V_{\rm F}$	1.0 1.3 1.7				1.7		Volts		
Maximum Reverse Current at T _A =25℃	-			10.0						
at Rated DC Blocking Voltage T _A =125℃	I_R	250								uAmp
Typical Junction Capacitance (Note 1)	C_{J}	175 145						pF		
Maximum Reverse Recovery Time (Note 2)	T_{RR}	50 80						nS		
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150							С	

NOTES:

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Reverse Recovery Test Conditions: I_F =.5A, I_R =1A, I_{RR} =.25A.

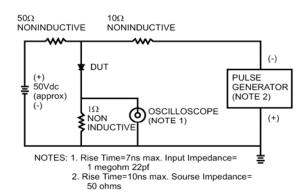
HER3001PT THRU HER3008PT





RATINGS AND CHARACTERISTIC CURVES

FIG.1- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



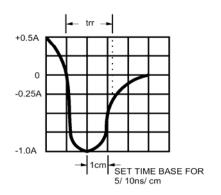


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

36

24

24

24

20

CASE TEMPERATURE. (°C)

