HER1601PT THRU HER1608PT GLASS PASSIVATED HIGH EFFICIENCY RECTIFIER

REVERSE VOLTAGE: FORWARD CURRENT:

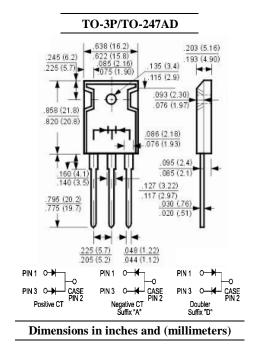
50 to 1000 VOLTS 16.0 AMPERE

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
- \cdot Ultra fast recovery times, high voltage.
- \cdot 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



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EK

HORNBY ELECTRONIC

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, $60H_Z$, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	HER1601PT	HER1602PT	HER1603PT	HER1604PT	HER1605PT	HER1606PT	HER1607PT	HER1608PT	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	т	16.0								Amp
at T _C =100°C	I _(AV)									
Peak Forward Surge Current,										
8.3ms single half-sine-wave	I _{FSM} 200								Amp	
superimposed on rated load (JEDEC method)										
Maximum Forward Voltage at 8.0A and $T_A=25^{\circ}C$	V _F	1.0 1.3				.3	1.7			Volts
Maximum Reverse Current at T _A =25°C	т		10.0							
at Rated DC Blocking Voltage T _A =125°C	I _R		250							
Typical Junction Capacitance (Note 1)	CJ	85 60						pF		
Maximum Reverse Recovery Time (Note 2)	T _{RR}	50						80		nS
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150							ĉ	

NOTES:

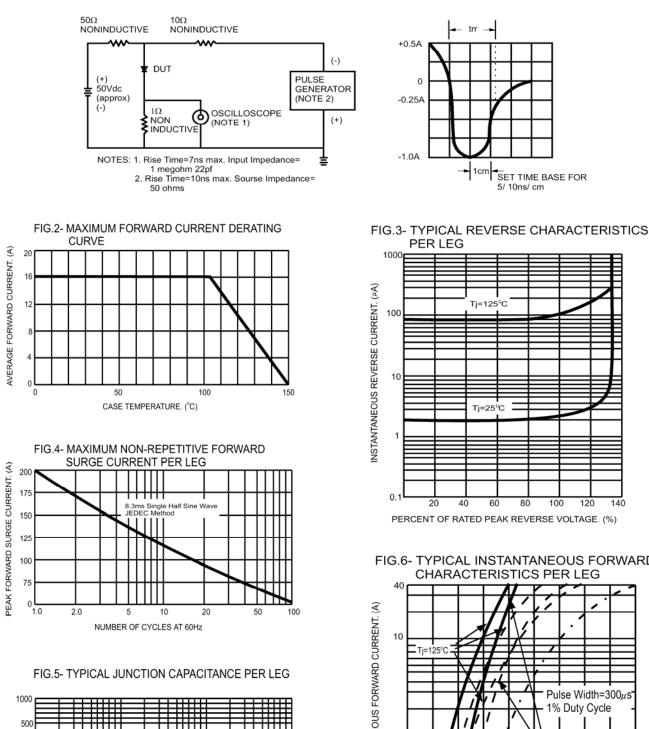
1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Reverse Recovery Test Conditions: I_F =.5A, I_R =1A, I_{RR} =.25A.

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RATINGS AND CHARACTERISTIC CURVES

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



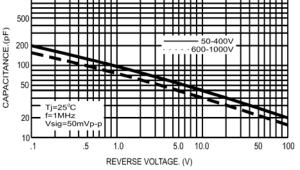


FIG.6- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

80

100

120

140

