HER601 THRU HER608

HIGH EFFICIENCY RECTIFIER

REVERSE VOLTAGE: FORWARD CURRENT:

50 to 1000 VOLTS 6.0 AMPERE

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FEATURES · Plastic package has Underwriters Laboratory **R-6** Flammability Classification 94V-O ctilizing Flame Retardant Epoxy Molding Compound. · Void-free Plastic in a R-6 package. .052 (1.3) .048 (1.2) DIA. \cdot 6.0 ampere operation at T_A=55 With no 1.0 (25.4) MIN. thermal runaway. · Ultra Fast switching for high efficiency. .360 (9.1) · Exceeds environmental standards of MIL-S-19500/228 .340 (8.6) .360 (9.1) DIA. .340 (8.6) MECHANICAL DATA 1.0 (25.4) Case: Molded plastic, R-6 MIN Terminals: Axial leads, solderable per MIL-STD-202, method 208 guaranteed Polarity: Band denotes cathode **Dimensions in inches and (millimeters)** Mounting position: Any Weight: 0.07ounce, 2.1gram

Maximum Ratings and Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified. Single phase, half wave, $60H_Z$, resistive or inductive load. For capacitive load, derate current by 20%.

	Symbols	HER601	HER602	HER603	HER604	HER605	HER606	HER607	HER608	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 .375"(9.5mm) Lead Length at T _A =55	I _(AV)	6.0								Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave	I _{FSM}	200								Amp
superimposed on rated load (JEDEC method)									r	
Maximum Forward Voltage at 6.0A and T _A =25	V _F	1.0 1.3 1.7					Volts			
Maximum Reverse Current at T _J =25 at Rated DC Blocking Voltage T _J =100	I _R	10.0 1000								uAmp
Typical Junction Capacitance (Note 1)	CJ	100 65							pF	
Maximum Reverse Recovery Time (Note 2)	T _{RR}	50 75						nS		
Typical Thermal Resistance (Note 3)	R _{0JA}	10							/W	
Operating and Storage Temperature Range	T_J , Tstg	-55 to +150								

NOTES:

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

2- Reverse Recovery Test Conditions : $I_{F} {=} .5 A$, $I_{R} {=} 1 A$, $I_{RR} {=} .25 A.$

3- Thermal Resistance from Junction to Ambient at 0.375"(9.5mm) lead length P.C.B. Mounted.



RATINGS AND CHARACTERISTIC CURVES

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ELECTRONICS

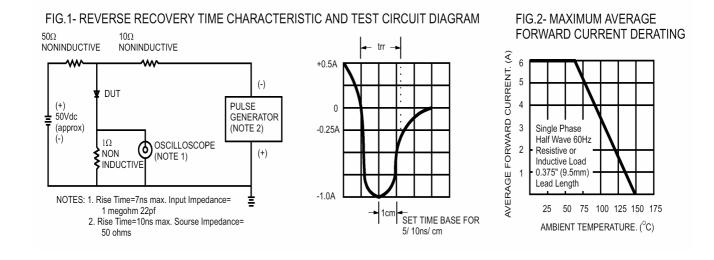
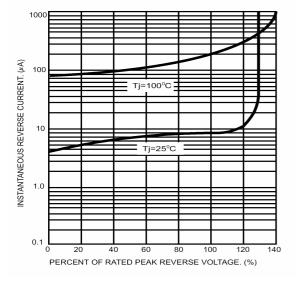
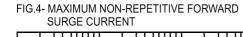


FIG.3- TYPICAL REVERSE CHARACTERISTICS





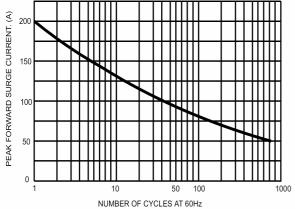


FIG.5- TYPICAL FORWARD CHARACTERISTICS

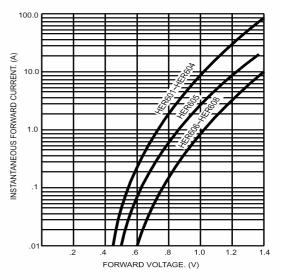


FIG.6- TYPICAL JUNCTION CAPACITANCE

