HER601 THRU HER608

HIGH EFFICIENCY RECTIFIER

REVERSE VOLTAGE: FORWARD CURRENT:

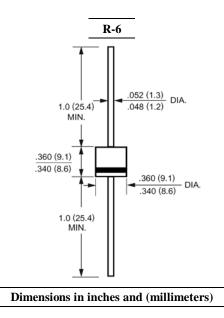
50 to 1000 VOLTS **6.0 AMPERE**



- · Plastic package has Underwriters Laboratory Flammability Classification 94V-O ctilizing Flame Retardant Epoxy Molding Compound.
- · Void-free Plastic in a R-6 package.
- · 6.0 ampere operation at $T_A=55^{\circ}C$ With no thermal runaway.
- · Ultra Fast switching for high efficiency.
- · Exceeds environmental standards of MIL-S-19500/228

MECHANICAL DATA

Case: Molded plastic, R-6 Terminals: Axial leads, solderable per MIL-STD-202, method 208 guaranteed Polarity: Band denotes cathode Mounting position: Any Weight: 0.07ounce, 2.1gram



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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	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									Amp	
.375''(9.5mm) Lead Length at T _A =55°C	I _(AV)	6.0								
Peak Forward Surge Current,										
8.3ms single half-sine-wave	I _{FSM} 200									Amp
superimposed on rated load (JEDEC method)										
Maximum Forward Voltage at 6.0A and T _A =25°C	V _F	1.0 1.3 1.7					Volts			
Maximum Reverse Current at T _J =25°C	т	10.0								uAmp
at Rated DC Blocking Voltage T _J =100°C	I _R	100								
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							°C/W	
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150							ĉ	

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.

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



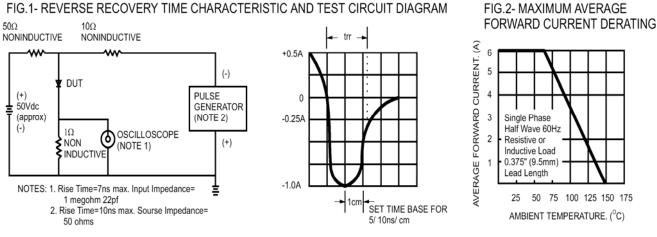


FIG.1- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

FIG.3- TYPICAL REVERSE CHARACTERISTICS

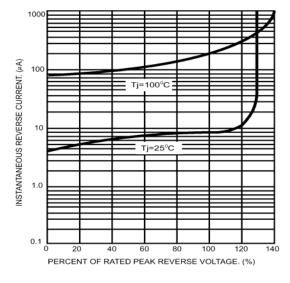


FIG.4- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

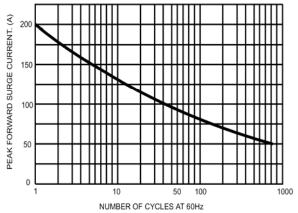


FIG.5- TYPICAL FORWARD CHARACTERISTICS

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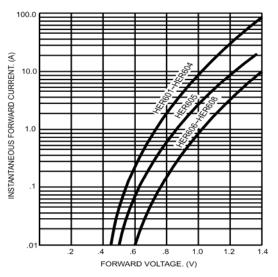


FIG.6- TYPICAL JUNCTION CAPACITANCE

