

Features

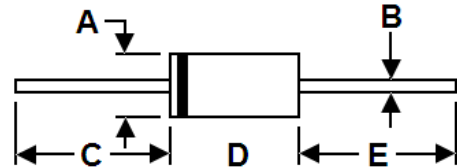
- * Low Forward Voltage Drop
- * High Current Capability
- * High Reliability
- * High Surge Current Capability



RoHS
COMPLIANT

Package Outline Dimensions

P600:



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	8.6	9.1	0.340	0.360
B	1.2	1.3	0.048	0.052
C	25.4	-	1.0	-
D	8.6	9.1	0.340	0.360
E	25.4	-	1.0	-

Mechanical Data

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting Position: Any

Maximum Ratings and Electrical Characteristics

Rating at 25 °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 601	HER 602	HER 603	HER 604	HER 605	HER 606	HER 607	HER 608	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	560	700	V
Maximum D.C Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current .375" (9.5mm)Lead Length @ $T_A=55^\circ\text{C}$	$I_{F(AV)}$	6.0								A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	200								A
Maximum Instantaneous Forward Voltage at 6.0A(Note1)	V_F	1.0			1.3		1.7			V
Maximum D.C Reverse Current @ $T_A=25^\circ\text{C}$ at Rated D.C Blocking Voltage @ $T_A=100^\circ\text{C}$	I_R	5.0 200								μA
Maximum Reverse Recovery Time(Note2)	T_{rr}	50				75				nS
Typical Junction Capacitance(Note3)	C_J	100				65				pF
Operating and Storage Temperature Range	T_J/T_{STG}	-55 to +125 / -55 to +150								$^\circ\text{C}$

Note: 1、 Mounted on P.C.B with 1.1 x 1.1"(30 x 30mm) copper pads. 2、 Reverse Recovery Test Conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$.
3. Measured at 1MHz and Applied Reverse Voltage of 4.0V D.C.

Ratings and Characteristic Curves

FIG. 1 – TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS

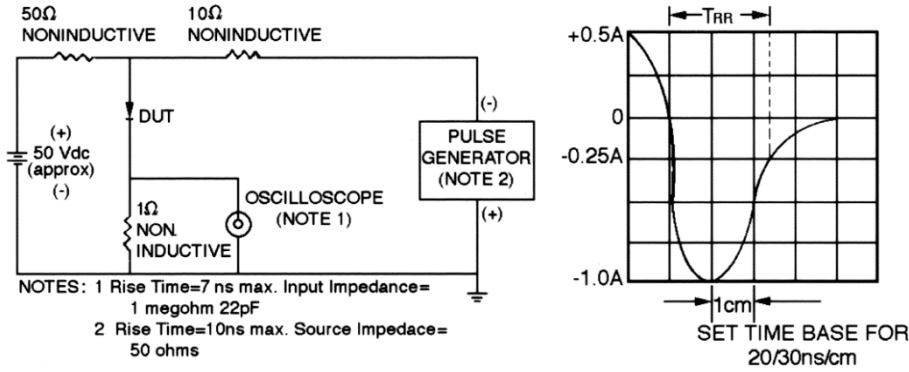


FIG. 2 – TYPICAL FORWARD CURRENT DERATING CURVE

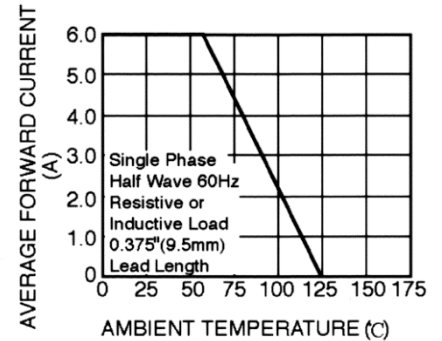


FIG. 3 – TYPICAL REVERSE CHARACTERISTICS

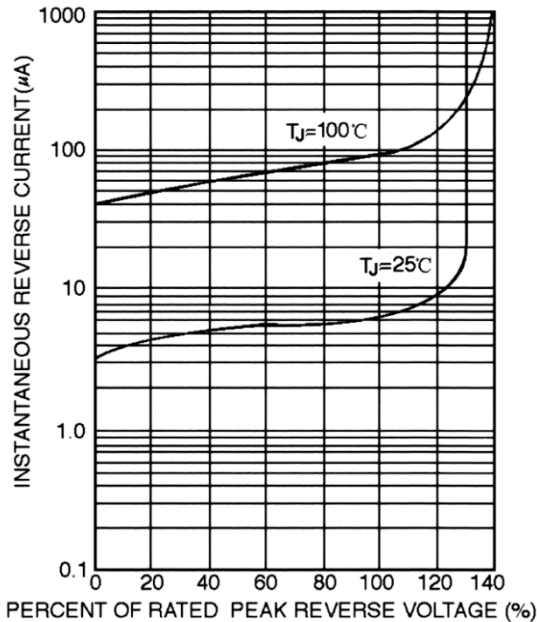


FIG. 4 – TYPICAL FORWARD CHARACTERISTICS

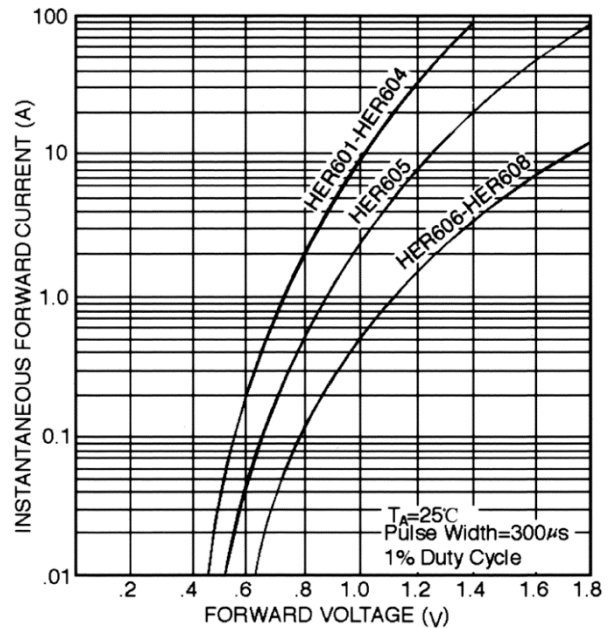


FIG. 5 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

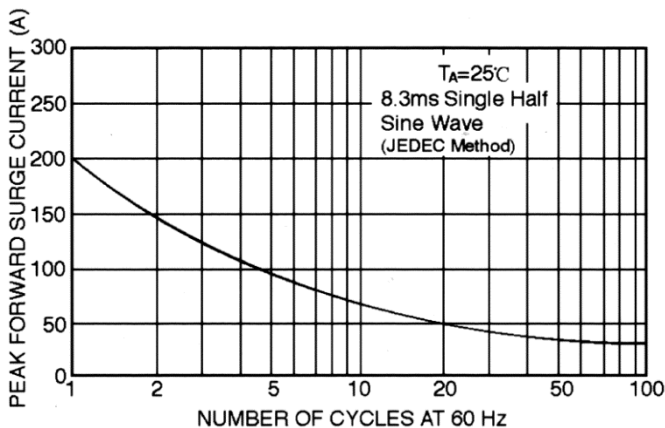
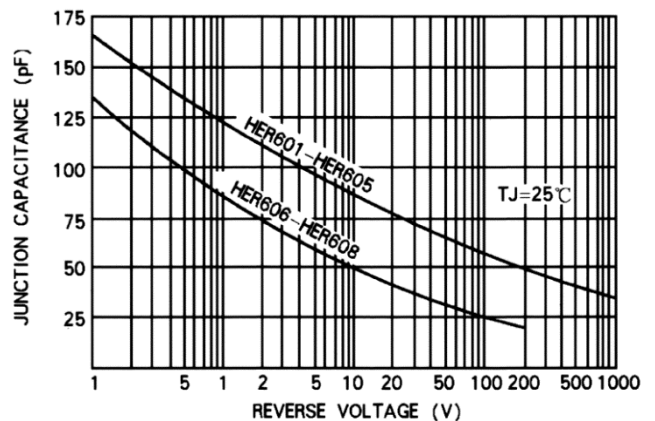


FIG. 6 – TYPICAL JUNCTION CAPACITANCE





HER601 THRU HER608

6.0 Amps. High Efficiency Rectifiers

Ordering Information

Part No.	Package	Packing
HER601~HER608	P600	0.5K/AMMO box
HER601~HER608	P600	0.8K/13" Paper reel
HER601~HER608	P600	0.2K/Bulk packing