HER601G THRU HER608G

6.0 Amps. Glass Passivated High Efficiency Rectifiers

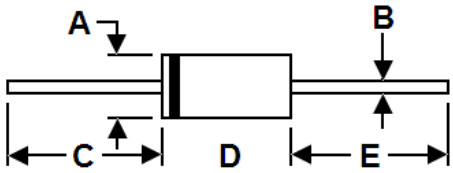
Features

* 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 ℃ 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 601G	HER 602G	HER 603G	HER 604G	HER 605G	HER 606G	HER 607G	HER 608G	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℃	$I_{F(AV)}$	6.0								A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	150								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℃ at Rated D.C Blocking Voltage @ T_A=125℃	I_R	10 200								μA
Maximum Reverse Recovery Time(Note2)	Trr	50					75			nS
Typical Junction Capacitance(Note3)	C_J	100					70			pF
Operating and Storage Temperature Range	T_J/T_{STG}	-55 to +150								℃

Note: 1、Mounted on P.C.B with 1.1×1.1"(30×30mm) copper pads. 2、Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A.

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

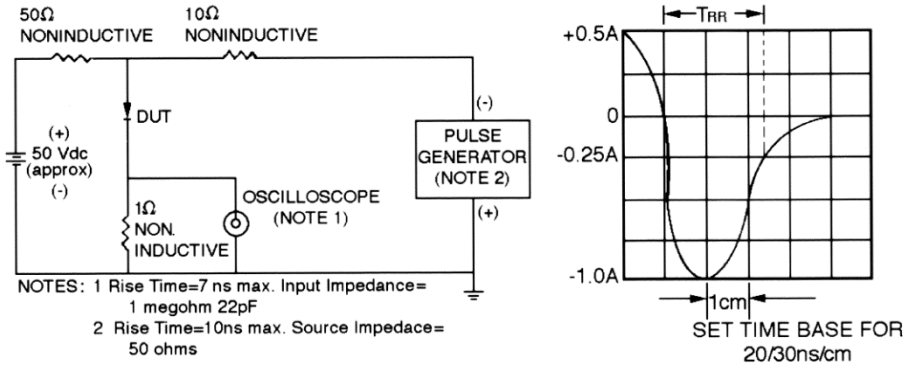


FIG. 2 – TYPICAL FORWARD CURRENT DERATING CURVE

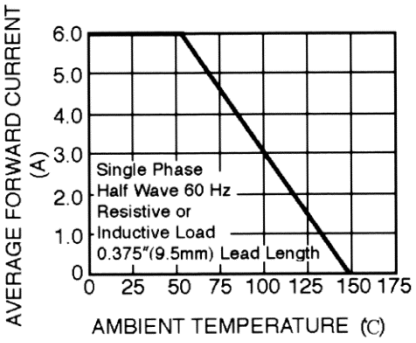


FIG. 3 – TYPICAL REVERSE CHARACTERISTICS

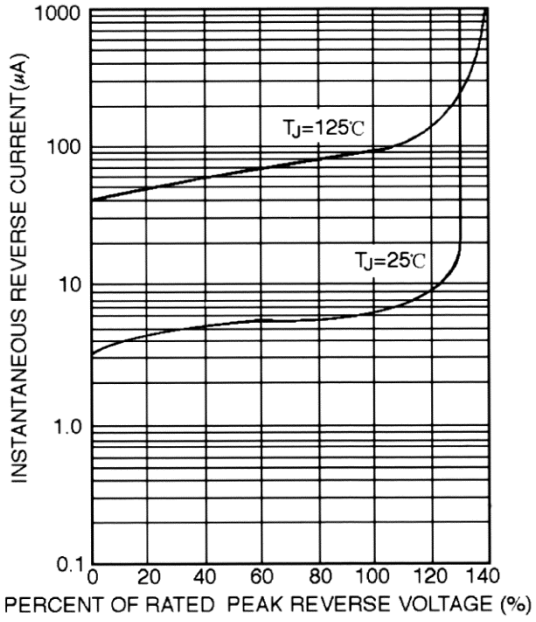


FIG. 4 – TYPICAL FORWARD CHARACTERISTICS

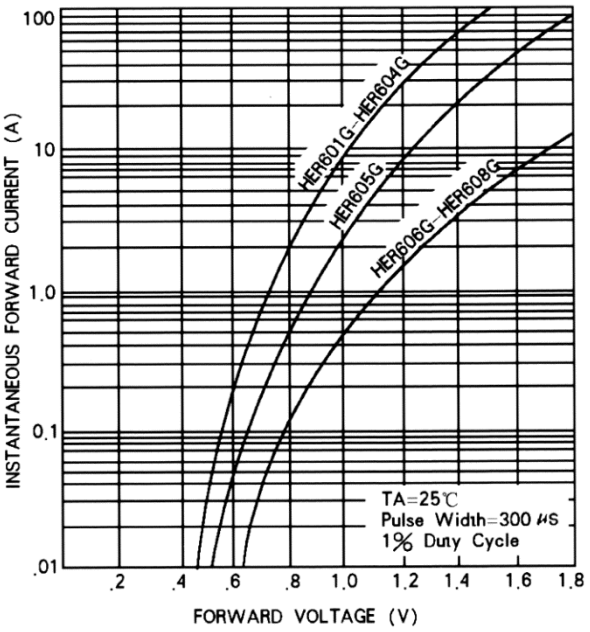


FIG. 5 – MAXIMUM NON – REPETITIVE FORWARD SURGE CURRENT

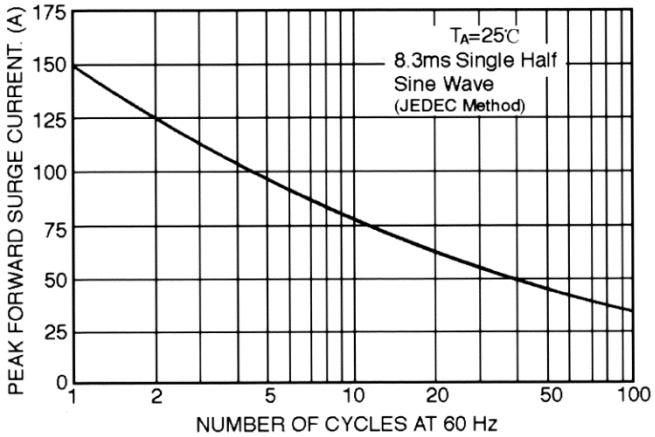
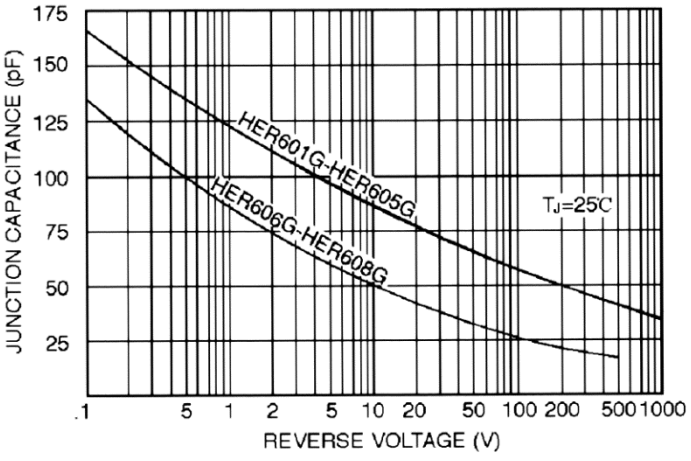


FIG. 6 – TYPICAL JUNCTION CAPACITANCE



Ordering Information

Part No.	Package	Packing
HER601G~HER608G	P600	0.5K/AMMO box
HER601G~HER608G	P600	0.8K/13" Paper reel
HER601G~HER608G	P600	0.2K/Bulk packing