HER201G THRU HER208G

2.0 Amps. Glass Passivated High Efficiency Rectifiers

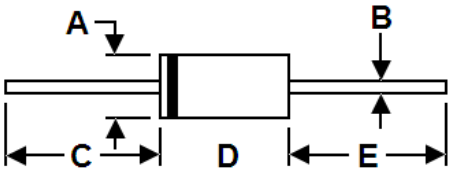
Features

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

RoHS COMPLIANT

Package Outline Dimensions

DO-15:



DIM.	Unit（mm）		Unit（inch）	
	Min	Max	Min	Max
A	2.6	3.6	0.102	0.142
B	0.7	0.9	0.027	0.035
C	25.4	-	1.0	-
D	5.8	7.6	0.228	0.300
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 201G	HER 202G	HER 203G	HER 204G	HER 205G	HER 206G	HER 207G	HER 208G	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℃	$I_{F(AV)}$	2.0								A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	55								A
Maximum Instantaneous Forward Voltage at 2.0A(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	5.0 100								μA
Maximum Reverse Recovery Time(Note2)	Trr	50					75			nS
Typical Junction Capacitance(Note3)	C_J	60					40			pF
Operating and Storage Temperature Range	T_J/T_{STG}	-55 to +150								℃

Note: 1、Mounted on P.C.B with 0.2×0.2"(5.0×5.0mm) 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

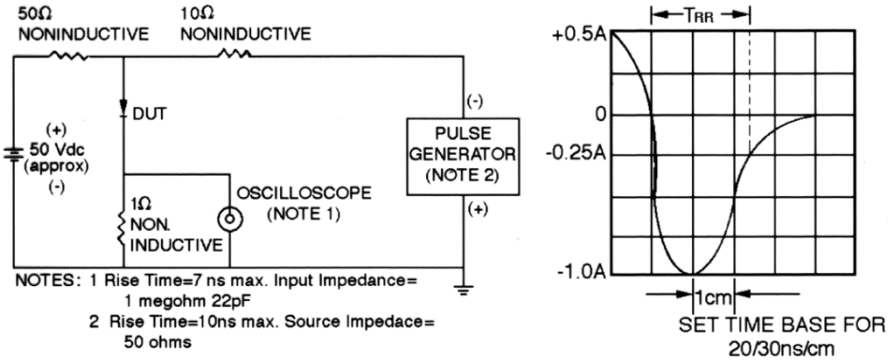


FIG.2 – TYPICAL FORWARD CURRENT DERATING CURVE

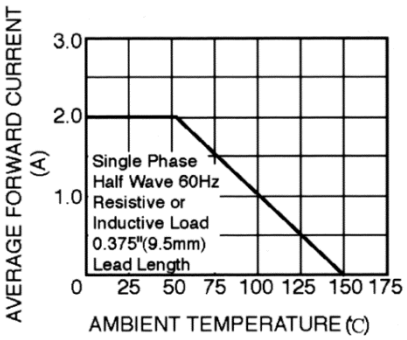


FIG.3 – TYPICAL REVERSE CHARACTERISTICS

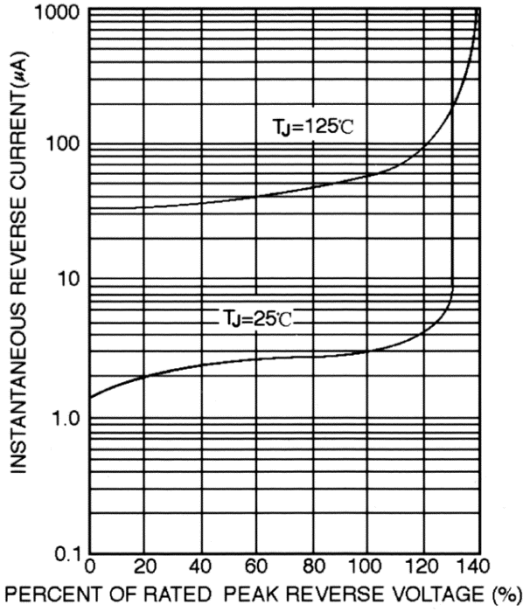


FIG.4 – TYPICAL FORWARD CHARACTERISTICS

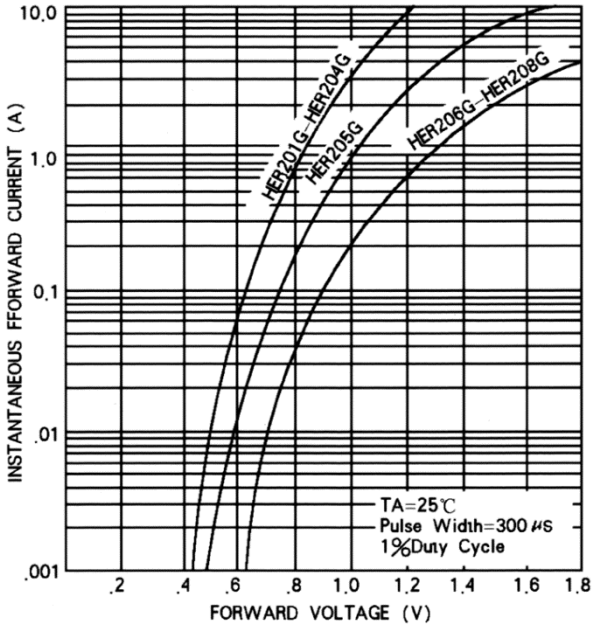


FIG.5 – MAXIMUM NON – REPETITIVE FORWARD SURGE CURRENT

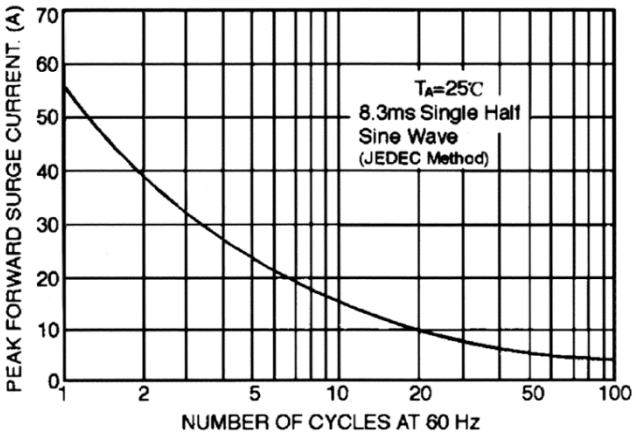
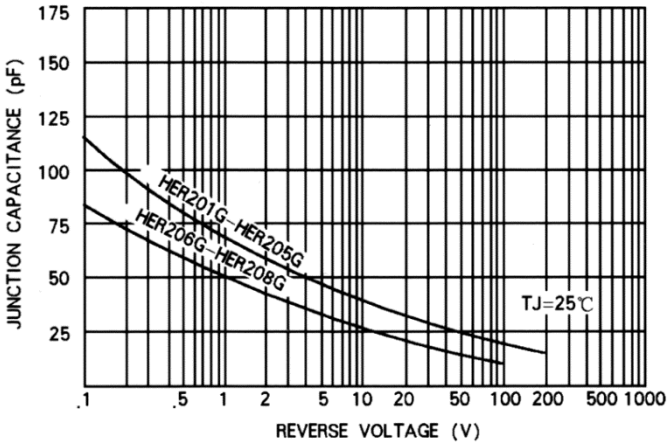


FIG.6 – TYPICAL JUNCTION CAPACITANCE



Ordering Information

Part No.	Package	Packing
HER201G~HER208G	DO-15	2K/AMMO box
HER201G~HER208G	DO-15	3K/AMMO box
HER201G~HER208G	DO-15	4K/13" Paper reel
HER201G~HER208G	DO-15	0.5K/Bulk packing