HERA801G THRU HERA808G

Glass Passivated High Efficient Rectifiers

Features

* Glass passivated chip junction
* High efficiency, low VF
* High current capability
* High Reliability
* High Surge Current Capability
* For use in low voltage, high frequency inverter, Free wheeling, and polarity protection application

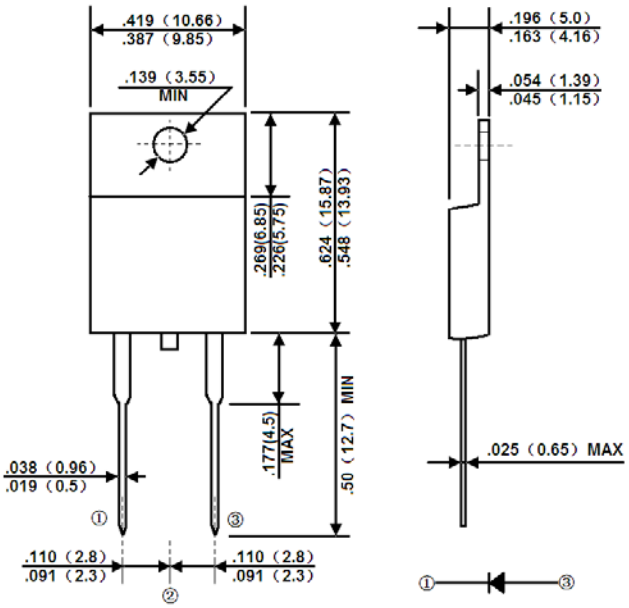
RoHS COMPLIANT

Mechanical Data

* Case: TO-220AC
* Epoxy: UL 94V-0 rate flame retardant
* Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
* Polarity: As marked
* High temperature soldering: 260℃/10 seconds/ 0.16",(4.06mm) from case

Package Outline Dimensions in inches (millimeters)

TO-220AC：



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	HERA 801G	HERA 802G	HERA 803G	HERA 804G	HERA 805G	HERA 806G	HERA 807G	HERA 808G	Unit
Maximum Repetitive 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	$I_{F(AV)}$	8								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 (Note 1) @ 8A	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	10 400								μA
Maximum Reverse Recovery Time (Note 2)	Trr	50					80			nS
Typical Junction Capacitance (Note 3)	Cj	65					55			pF
Typical Thermal Resistance	$R_{\theta JC}$	2								℃/W
Operating and Storage Temperature Range	T_J/T_{STG}	-55 to +150								℃

Note:1、Pulse Test with PW=300 usec, 1% Duty Cycle 2、Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A
3、Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

Ratings and Characteristic Curves

FIG.1 FORWARD CURRENT DERATING CURVE

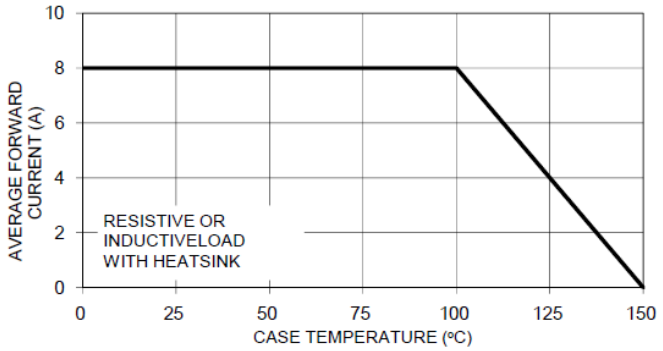


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

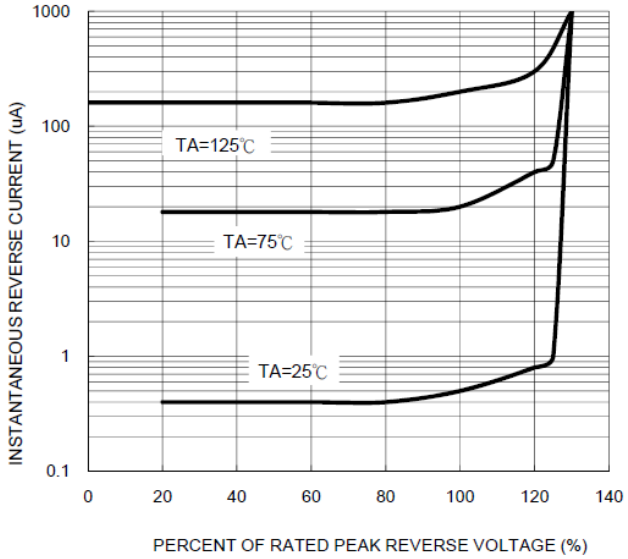


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

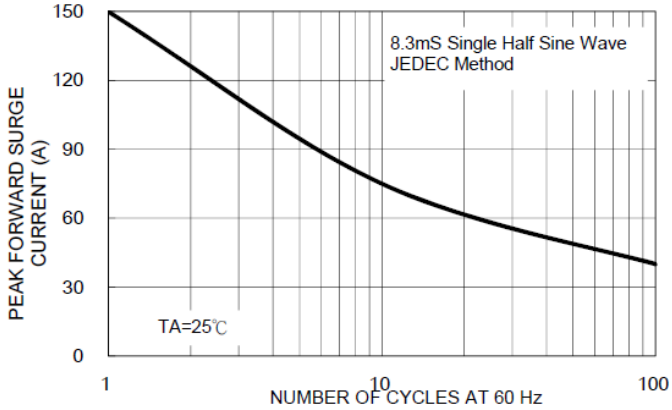


FIG. 5 TYPICAL FORWARD CHARACTERISTICS

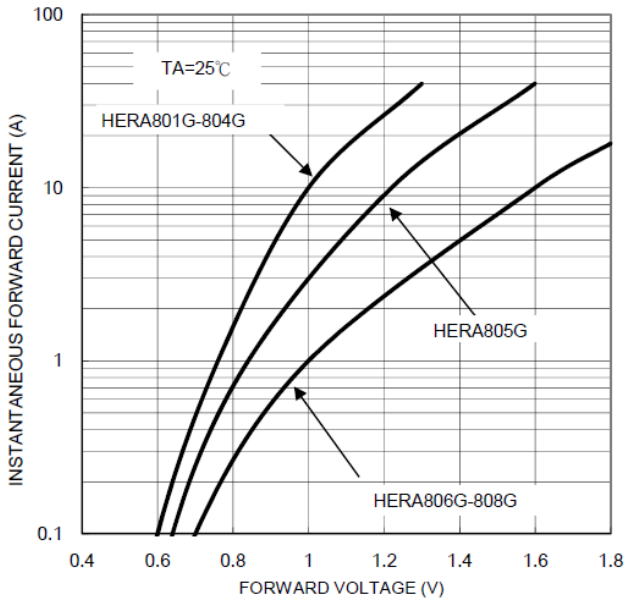


FIG. 4 TYPICAL JUNCTION CAPACITANCE

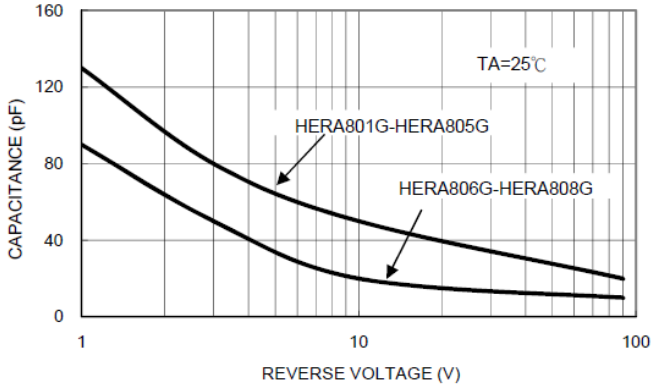
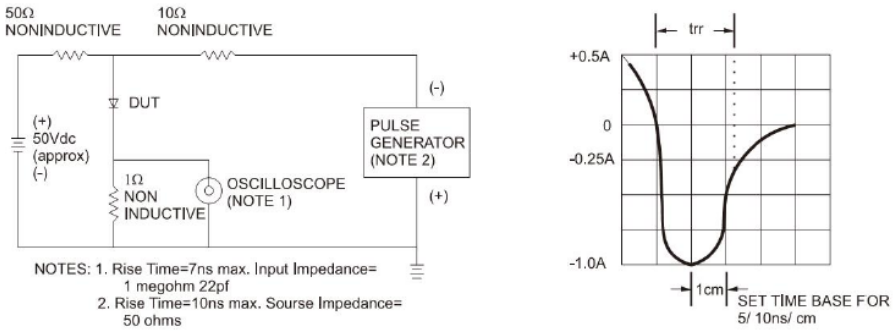


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



Ordering Information

Part No.	Package	Packing
HERA801G~HERA808G	TO-220AC	50pcs/Tube