

HER1601G - HER1608G

16.0 AMPS. Glass Passivated High Efficient Rectifiers

TO-220AB

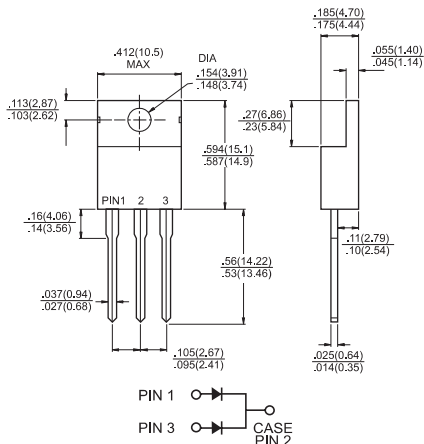


Features

- ◇ 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.

Mechanical Data

- ◇ Cases: TO-220AB molded plastic
- ◇ Epoxy: UL 94V0 rate flame retardant
- ◇ Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ◇ Polarity: As marked
- ◇ High temperature soldering guaranteed: 260°C/10 seconds .16"(.406mm) from case.
- ◇ Weight: 2.24 grams



Dimensions in inches and (millimeters)

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	HER	HER	HER	HER	HER	HER	HER	Units
		1601G	1602G	1603G	1604G	1605G	1606G	1607G	1608G	
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 DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_C = 100^\circ C$	$I_{(AV)}$	16.0								A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	125								A
Maximum Instantaneous Forward Voltage @ 8.0A	V_F	1.0		1.3		1.7			V	
Maximum DC Reverse Current @ $T_A = 25^\circ C$ at Rated DC Blocking Voltage @ $T_A = 125^\circ C$	I_R	10				400				μA μA
Typical Reverse Recovery Time (Note 1)	T_{rr}	50				80			nS	
Typical Junction Capacitance (Note 2)	C_j	80				50			pF	
Typical Thermal Resistance (Note 3)	$R_{\theta JC}$	1.5								$^\circ C/W$
Operating Temperature Range	T_J	-65 to +150								$^\circ C$
Storage Temperature Range	T_{STG}	-65 to +150								$^\circ C$

Notes: 1. Reverse Recovery Test Conditions: $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$

2. Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

3. Mounted on Heatsink Size of 4 in x 6 in x 0.25 in Al-Plate.

查询"HER1601G"供应商

RATINGS AND CHARACTERISTIC CURVES (HER1601G THRU HER1608G)

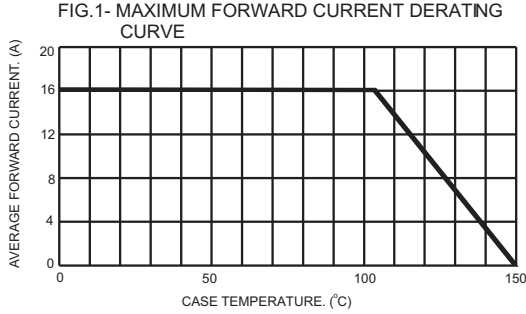


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER LEG

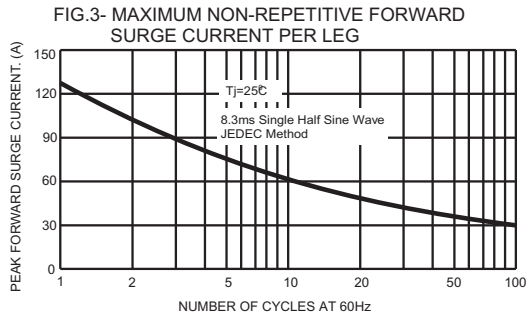
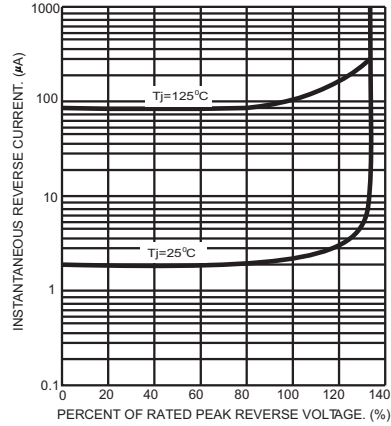


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER LEG

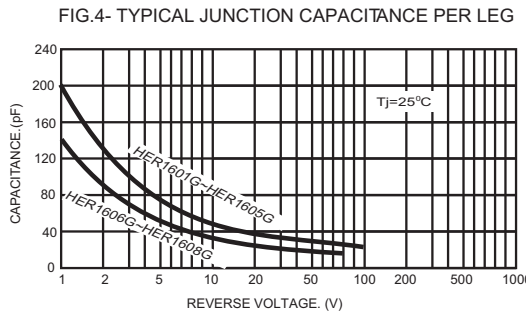
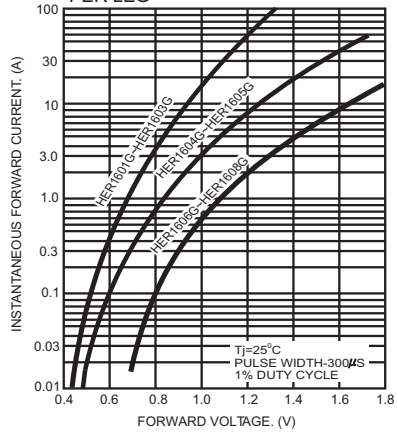


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

