



HERA1601G THRU HERA1608G

16.0 AMPS. Glass Passivated High Efficient Rectifiers



Voltage Range
50 to 1000 Volts
Current
16.0 Amperes

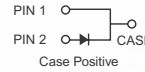
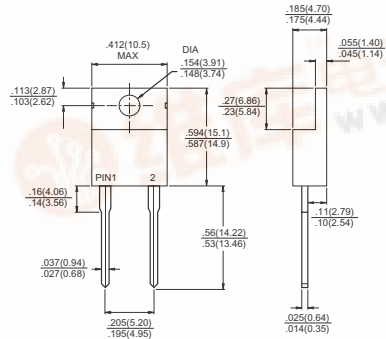
Features

- ◇ Low forward voltage drop
- ◇ High current capability
- ◇ High reliability
- ◇ High surge current capability

Mechanical Data

- ◇ Cases: Molded plastic
- ◇ Epoxy: UL 94V-O rate flame retardant
- ◇ Terminals: Leads solderable per MIL-STD-202, Method 208 guaranteed
- ◇ Polarity: As marked
- ◇ High temperature soldering guaranteed: 260°C/10 seconds .16", (4.06mm) from case.
- ◇ Weight: 2.24 grams

TO-220A



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	HERA	HERA	HERA	HERA	HERA	HERA	HERA	HERA	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}	250								A	
Maximum Instantaneous Forward Voltage @ 16.0A	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					10.0					uA uA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	50				80				nS	
Typical Junction Capacitance (Note 2)	C_j	120				80				pF	
Typical Thermal Resistance (Note 3)	$R_{\theta JC}$	2.0								°C/W	
Operating Temperature Range	T_J	-65 to +150								°C	
Storage Temperature Range	T_{STG}	-65 to +150								°C	

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

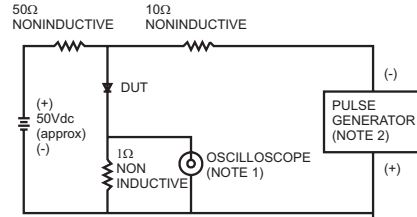
2. Measured at 1 MHz and Applied Reverse Voltage of 4.0V D. C.

3. Mounted on Heatsink Size of 2 in x 3 in x 0.25 in Al-Plate.



RATINGS AND CHARACTERISTIC CURVES (HERA1601G THRU HERA1608G)

FIG.1- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



NOTES: 1. Rise Time=7ns max. Input Impedance=1 megohm 22pf
2. Rise Time=10ns max. Source Impedance=50 ohms

