



HERA1601G THRU HERA1608G

16.0 AMPS. Glass Passivated High Efficient Rectifiers



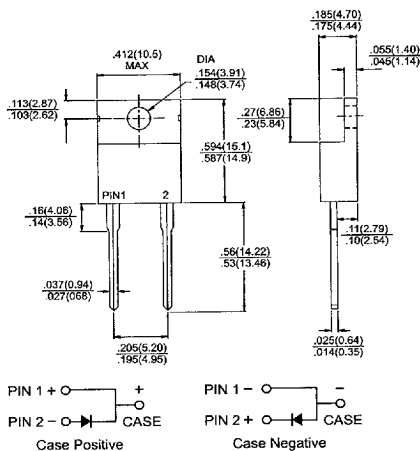
Voltage Range
50 to 1000 Volts
Current
16.0 Amperes

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: 250°C/10 seconds/.16" (4.06mm) lead lengths at 5 lbs., (2.3kg) tension
- 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	HERA1601G	HERA1602G	HERA1603G	HERA1604G	HERA1605G	HERA1606G	HERA1607G	HERA1608G	Units
Maximum Recurrent Peak Reverse Voltage	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current @ T _C =100℃	16.0								A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	250								A
Maximum Instantaneous Forward Voltage @ 16.0A	1.0				1.3	1.7			V
Maximum DC Reverse Current @ T _A =25℃ at Rated DC Blocking Voltage @ T _A =125℃	10.0 400								uA uA
Maximum Reverse Recovery Time (Note 1)	50					80			nS
Typical Junction Capacitance (Note 2)	170					130			pF
Operating Temperature Range T _J	-65 to +150								℃
Storage Temperature Range T _{STG}	-65 to +150								℃

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.

RATINGS AND CHARACTERISTIC CURVES (HERA1601G THRU HERA1608G)

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

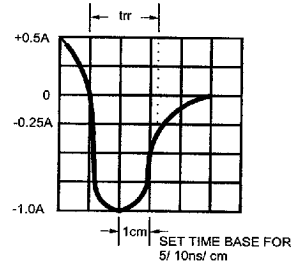
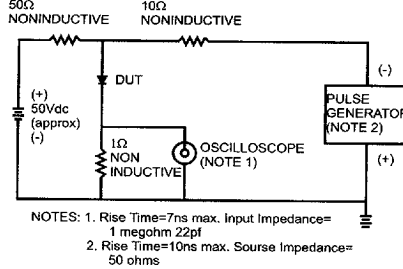


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

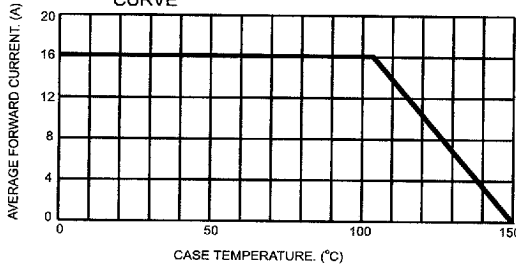


FIG.3- TYPICAL REVERSE CHARACTERISTICS

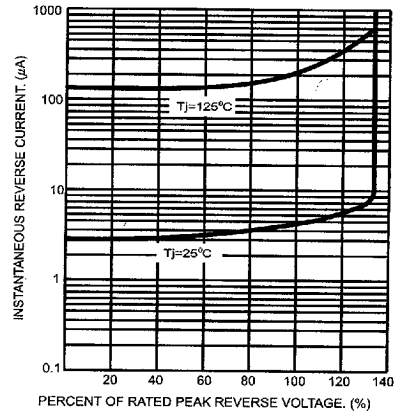


FIG.4- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

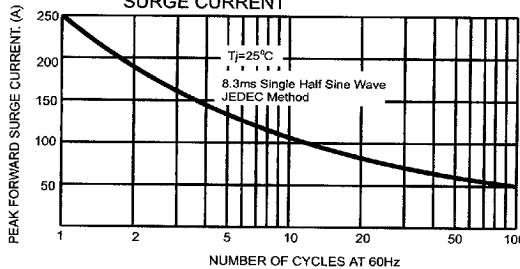


FIG.6- TYPICAL FORWARD CHARACTERISTICS

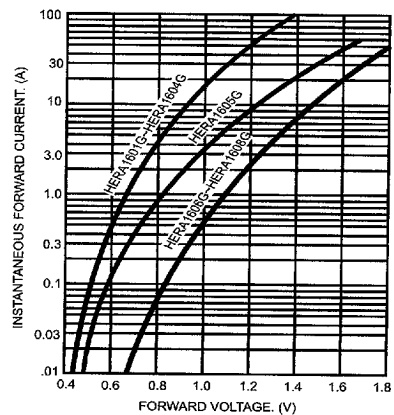


FIG.5- TYPICAL JUNCTION CAPACITANCE

