

Glass passivated chip junction

High surge current capability

code & prefix "G" on datecode

Cases: TO-220AB Molded plastic Epoxy: UL 94V-0 rate flame retardant

For use in low voltage, high frequency inventor,

Green compound with suffix "G" on packing

Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed

High temperature soldering guaranteed: 260° C/10 seconds .16", (4.06mm) from case

free wheeling, and polarity protection application

High efficiency, Low VF

High current capability

High reliability

Mechanical Data

Polarity: As marked

Weight: 2.24 grams

Features

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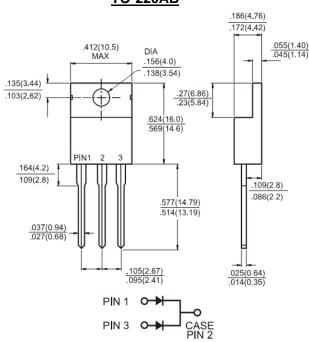
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HER1601G - HER1608G

16.0AMPS. Glass Passivated High Efficient Rectifiers TO-220AB



Dimensions in inches and (millimeters)

$^{\circ}$	Marking Diagram					
• O •	HER160XG	= Specific Device Code				
SGYWW	G	= Green Compound				
HERFIGUNG	Y	= Year				
YHHY	WW	= Work Week				

Maximum Ratings and Electrical Characteristics

Rating at 25 $^{\circ}$ 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		HER 1601G	HER 1602G	HER 1603G	HER 1604G	HER 1605G	HER 1606G	HER 1607G	HER 1608G	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		16								А
Peak Forward Surge Current, 8.3 ms Single Half Sine- wave Superimposed on Rated Load (JEDEC method)		125								А
Maximum Instantaneous Forward Voltage (Note 1) @ 8 A		1.0 1.3					1.7			
Maximum DC Reverse Current@ $T_A=25 \degree$ Cat Rated DC Blocking Voltage@ $T_A=125 \degree$ C		10 400								uA
Maximum Reverse Recovery Time (Note 2)		50 80						nS		
Typical Junction Capacitance (Note 3)		80 50						pF		
Typical Thermal Resistance		1.5								°C/W
Operating Temperature Range		- 65 to + 150								°C
Storage Temperature Range		- 65 to + 150								°C

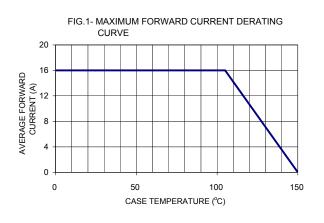
Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

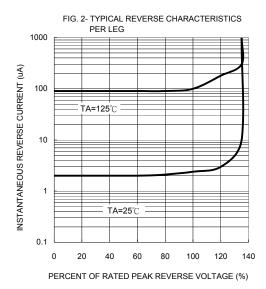
Note 2: Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

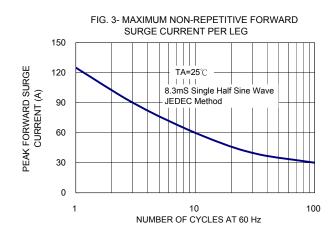
Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.



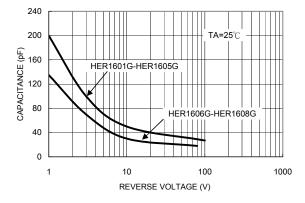
RATINGS AND CHARACTERISTIC CURVES (HER1601G THRU HER1608G)











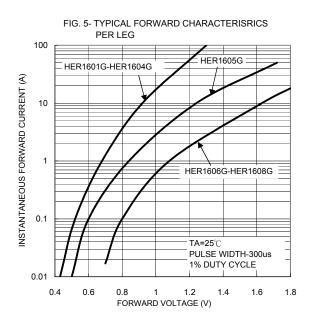


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

