







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 inventor, free wheeling, and polarity protection application
- Green compound with suffix "G" on packing code & prefix "G" on datecode

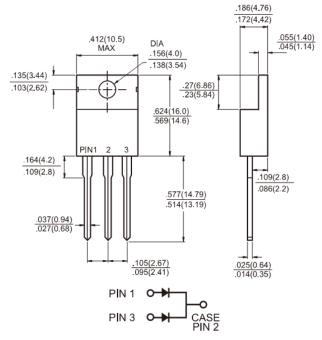
Mechanical Data

- Cases: TO-220AB Molded plastic
- ♦ 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 guaranteed: 260°C/10 seconds .16", (4.06mm) from case
- ♦ Weight: 2.24 grams

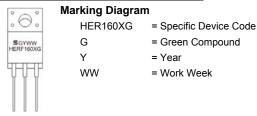
HER1601G - HER1608G

16.0AMPS. Glass Passivated High Efficient Rectifiers

TO-220AB



Dimensions in inches and (millimeters)



Maximum Ratings and Electrical Characteristics

For capacitive load, derate current by 20%

Type Number	Symbol	HER 1601G	HER 1602G	HER 1603G	HER 1604G	HER 1605G	HER 1606G	HER 1607G	HER 1608G	Units
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	$I_{F(AV)}$	16								Α
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	125							Α	
Maximum Instantaneous Forward Voltage (Note 1) @ 8 A	V_{F}	1.0 1.3				1.7		V		
Maximum DC Reverse Current	I _R	10 400							uA	
Maximum Reverse Recovery Time (Note 2)	Trr	50					80		nS	
Typical Junction Capacitance (Note 3)	Cj	80					50		pF	
Typical Thermal Resistance	$R_{\theta JC}$	1.5							°C/W	
Operating Temperature Range	TJ	- 65 to + 150							°С	
Storage Temperature Range	T_{STG}	- 65 to + 150							οС	

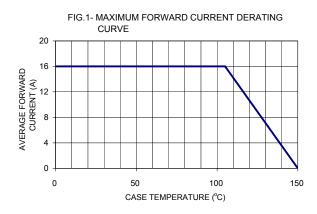
Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

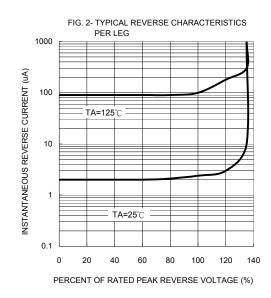
Note 2: Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

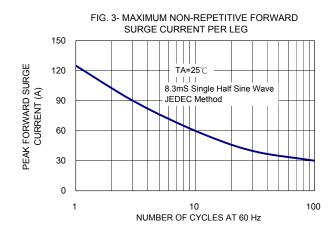
Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

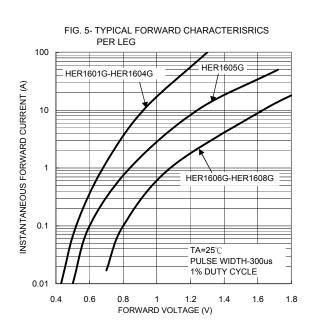


RATINGS AND CHARACTERISTIC CURVES (HER1601G THRU HER1608G)









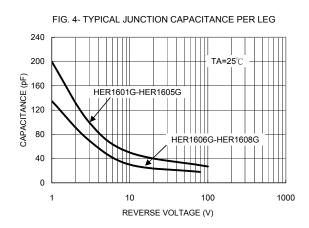
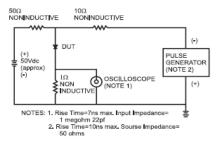
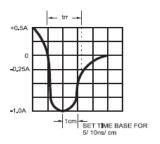


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





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Taiwan Semiconductor:

HER1601G HER1602G HER1603G HER1604G HER1605G HER1606G HER1607G HER1608G