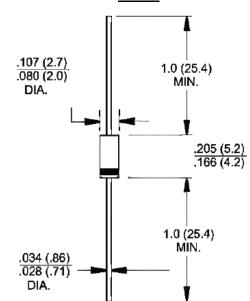




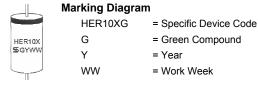
# **HER101G - HER108G**

1.0AMP. Glass Passivated High Efficient Rectifiers

## **DO-41**



#### **Dimensions in inches and (millimeters)**



# **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**

- ♦ Case: Molded plastic DO-41
- ♦ Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: Color band denotes cathode
- High temperature soldering guaranteed: 260 ℃ /10s
  /.375", (9.5mm) lead lengths at 5 lbs, (2.3kg) tension
- ♦ Weight: 0.34 grams

# **Maximum Ratings and Electrical Characteristics**

For capacitive load, derate current by 20%

Type Number	Symbol	HER 101G	HER 102G	HER 103G	HER 104G	HER 105G	HER 106G	HER 107G	HER 108G	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 <sub>DC</sub>	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length @ $T_A$ =55 $^{\circ}$ C	I <sub>F(AV)</sub>	1							Α	
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	30							Α	
Maximum Instantaneous Forward Voltage (Note 1) @ 1 A	V <sub>F</sub>	1.0 1.3				1.7		V		
Maximum DC Reverse Current at $\  \   \  \  \  \  \  \  \  \  \  \  \$	I <sub>R</sub>	5 150							uA uA	
Maximum Reverse Recovery Time (Note 2)	Trr	50 75						nS		
Typical Junction Capacitance (Note 3)	Cj	15 10						pF		
Typical Thermal Resistance (Note 4)	$R_{ heta JA} \ R_{ heta JC}$	60 15							°C/W	
Operating Temperature Range	TJ	- 65 to + 150							οС	
Storage Temperature Range	T <sub>STG</sub>	- 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.

Note 4: Mount on Cu-Pad Size 5mm x 5mm on PCB



#### RATINGS AND CHARACTERISTIC CURVES (HER101G THRU HER108G)

