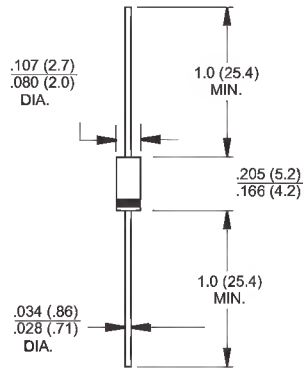


HER101G - HER108G

1.0AMP. Glass Passivated High Efficient Rectifiers

DO-41



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 inverter, 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 94V0 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°C/10 seconds/.375" (9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ◆ Weight: 0.34 gram

Dimensions in inches and (millimeters)

Marking Diagram



- HER10XG = Specific Device Code
- G = Green Compound
- Y = Year
- WW = Work Week

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	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_{DC}	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length @ $T_A = 55^\circ C$	$I_{(AV)}$	1.0								A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	30								A
Maximum Instantaneous Forward Voltage @ 1.0A	V_F	1.0			1.3		1.7			V
Maximum DC Reverse Current Rated DC Blocking Voltage @ $T_A=25^\circ C$ @ $T_A=125^\circ C$	I_R					5.0		150		μA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	50				75			nS	
Typical Junction Capacitance (Note 2)	C_j	15				10			pF	
Typical thermal resistance (Note 3)	$R_{\theta JA}$ $R_{\theta JC}$	70				15			$^\circ C/W$	
Operating Temperature Range	T_J	-65 to +150								$^\circ C$
Storage Temperature Range	T_{STG}	-65 to +150								$^\circ C$

- 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 4.0 V D.C.
 3. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.