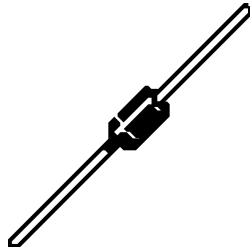




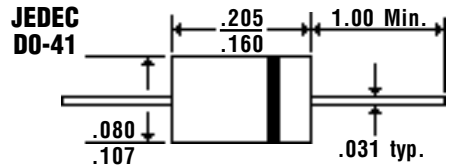
1.0 Amp Glass Passivated SUPER FAST PLASTIC RECTIFIERS

HER101G . . . 108G Series

Description



Mechanical Dimensions



Features

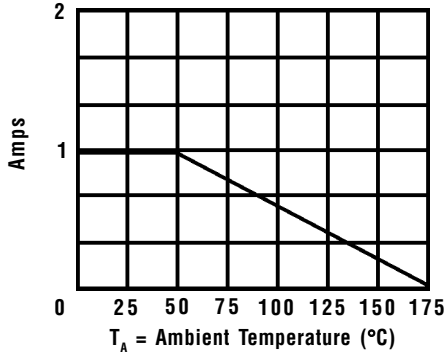
- GLASS PASSIVATED DIE
- ULTRAFAST RECOVERY TIME
- LOW FORWARD VOLTAGE DROP
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.	HER101G . . . 108G Series								Units	
Maximum Ratings	101G	102G	103G	104G	105G	106G	107G	108G		
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	300	400	600	800	1000	Volts	
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	210	280	420	560	700	Volts	
DC Blocking Voltage... V_{DC}	50	100	200	300	400	600	800	1000	Volts	
Average Forward Rectified Current... $I_{F(av)}$ $T_A = 55^\circ C$	..... 1.0								Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Current & Temp	..... 30								Amps
Forward Voltage @ 1.0A... V_F	< 1.0 > 1.3 < 1.7 >								Volts	
DC Reverse Current... I_R @ Rated DC Blocking Voltage	$T_A = 25^\circ C$				$T_A = 100^\circ C$			 5.0	μAmps
	..... 150 .....				..... 150				μAmps
Typical Junction Capacitance... C_j (Note 1)	< 35 > < 80 >								pF	
Typical Thermal Resistance... $R_{\theta JC}$ (Note 2)	..... 2.5								°C / W
Typical Reverse Recovery Time... t_{RR} (Note 3)	< 50 > < 75 >								nS	
Operating & Storage Temperature Range... T_J, T_{STRG}	..... -55 to 175								°C

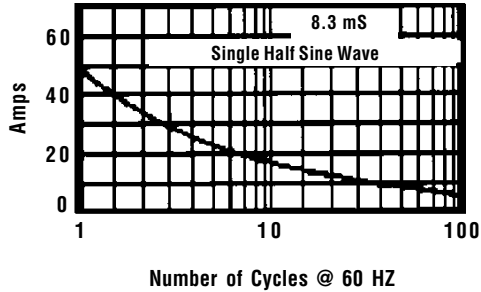
1.0 Amp Glass Passivated SUPER FAST PLASTIC RECTIFIERS

HER101G . . . 108G Series

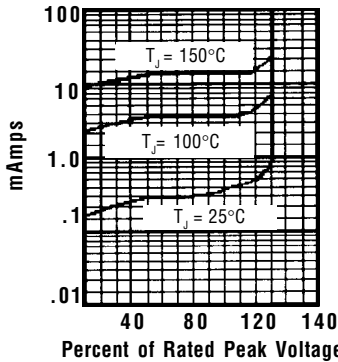
Forward Current Derating Curve



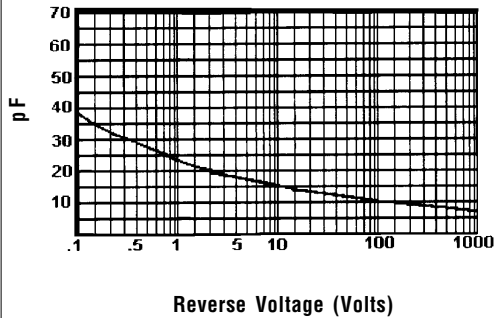
Non-Repetitive Peak Forward Surge Current



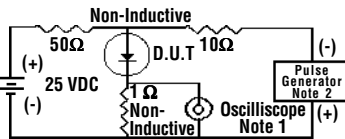
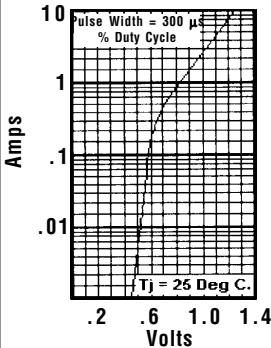
Typical Reverse Characteristics



Typical Junction Capacitance



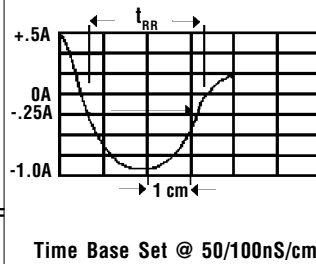
Typical Instantaneous Forward Characteristics



Notes:

1. Rise Time = 7 nS Max.
Impedance = 1 megohm, 22 pF
2. Rise Time = 10 nS Max.
Source Impedance = 50 Ohms

Reverse Recovery Characteristics



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 HZ Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

- NOTES:**
1. Measured @ 1 MHz and applied reverse voltage of 4.0V.
 2. Thermal Resistance Junction to Ambient Vert. PC Board Mounting 0.5" (12.7mm) Lead Length.
 3. Conditions: $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$.