

# High Efficiency Glass Passivated Rectifier

**multicomp** PRO



## Features

- Low cost
- Diffused junction
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

## Mechanical Data

Case	: JEDEC DO-27 molded plastic
Polarity	: Colour band denotes cathode
Weight	: 0.04ounces , 1.1grams
Mounting Position	: Any
Reverse Voltage	: 800 to 1000 Volts
Forward Current	: 3 Ampere

## Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	HER307G+	HER308G+	Unit
Max. Recurrent Peak Reverse Voltage	$V_{RRM}$	800	1000	V
Max. RMS Voltage	$V_{RMS}$	560	700	V
Max. DC Blocking Voltage	$V_{DC}$	800	1000	V
Max. Average Forward Rectified Current @ $T_A = 55^\circ C$	$I_{(AV)}$	3.0		A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	$I_{FSM}$	125		A
Peak Forward Voltage at 3A DC	$V_F$	1.7		V
Maximum DC Reverse Current @ $T_J = 25^\circ C$ at Rated DC Blocking Voltage @ $T_J = 100^\circ C$	$I_R$	5 100		$\mu A$
Maximum Reverse Recovery Time (Note 1)	$T_{rr}$	75		nS
Typical Junction Capacitance (Note 2)	$C_J$	30		pF
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	20		$^\circ C/W$
Operating Temperature Range	$T_J$	-55 to +150		$^\circ C$
Storage Temperature Range	$T_{STG}$	-55 to +150		$^\circ C$

- Notes** : 1. Measured with  $I_F = 0.5A$ ,  $I_R = 1A$ ,  $I_{RR} = 0.25A$   
2. Measured at 1MHz and applied reverse voltage of 4V DC  
3. Thermal resistance junction to ambient.  
4. The typical data above is for reference only

Newark.com/multicomp-pro  
Farnell.com/multicomp-pro  
Element14.com/multicomp-pro

**multicomp** PRO

# High Efficiency Glass Passivated Rectifier

**multicomp** PRO

## Ratings and Characteristic Curves

FIG. 1 – FORWARD CURRENT DERATING CURVE

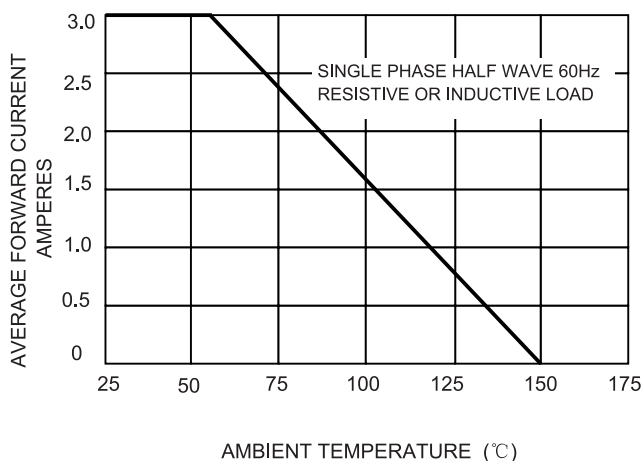


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

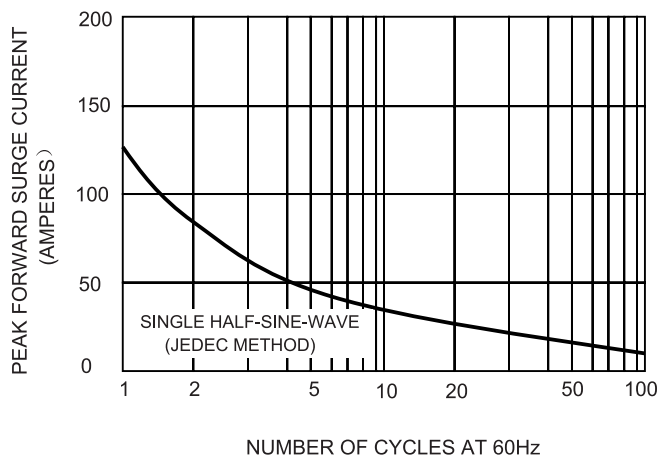


FIG. 3 – TYPICAL JUNCTION CAPACITANCE

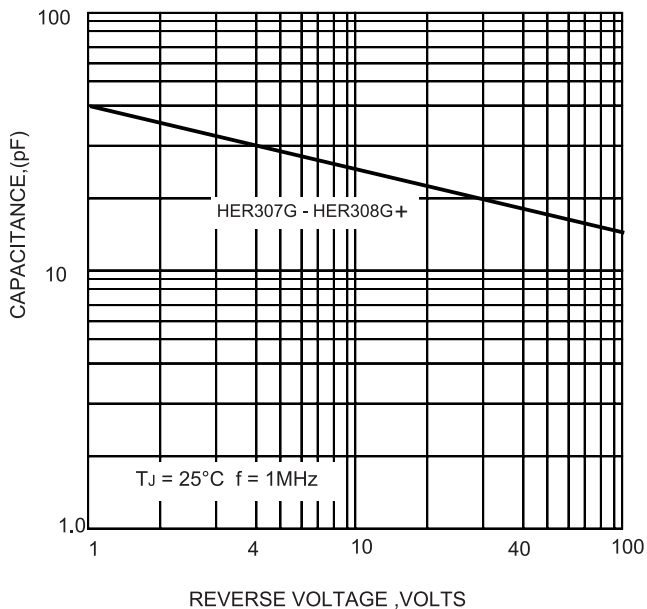
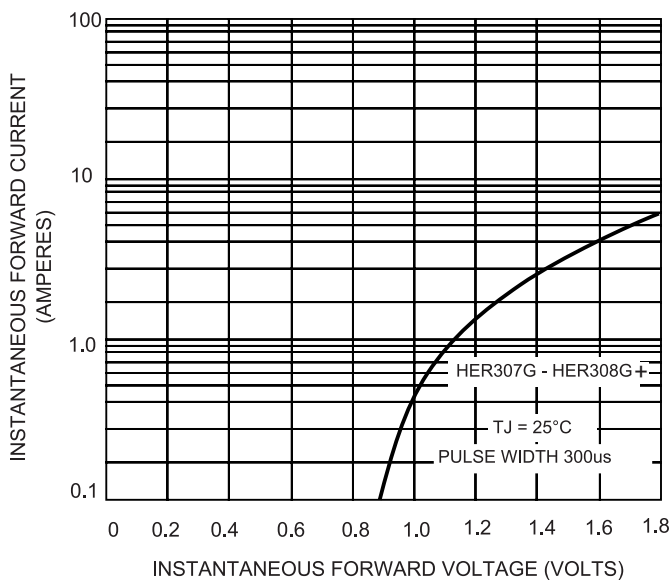


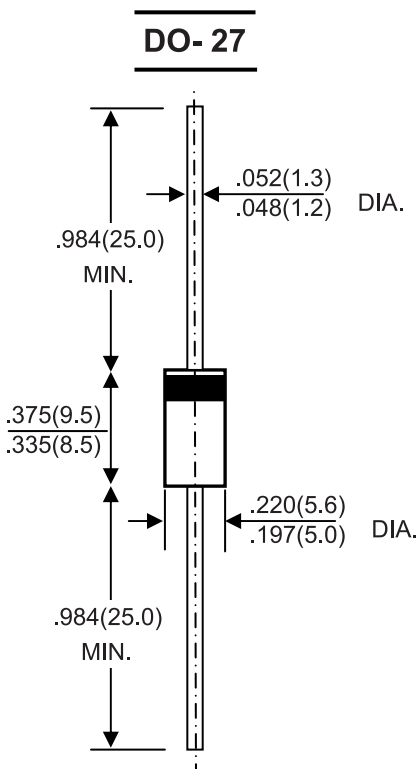
FIG. 4 - TYPICAL FORWARD CHARACTERISTICS



**multicomp** PRO

# High Efficiency Glass Passivated Rectifier

**Dimensions:**



Dimensions : Inches (Millimetres)

**Part Number Table**

Description	Part Number
High Efficiency Glass Passivated Rectifiers	HER307G+
	HER308G+

**Important Notice :** This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.