High Efficiency Glass Passivated Rectifier



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-15 molded plastic
Polarity : Colour band denotes cathode
Weight : 0.015 ounces , 0.4 grams

Mounting Position : Any

Reverse Voltage : 100 to 300 Volts Forward Current : 2 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	HER202G	HER204G	Unit
Max. Recurrent Peak Reverse Voltage	VRRM	100	300	V
Max. RMS Voltage	VRMS	70	210	V
Max. DC Blocking Voltage	VDC	100	300	V
Max. Average Forward Rectified Current @TA = 50°C	I(AV)	2.0		А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	Ігѕм	60		А
Peak Forward Voltage at 2A DC	VF	1	1.3	V
Maximum DC Reverse Current @TJ = 25°C at Rated DC Blocking Voltage @TJ = 100°C	lR	5 100		μA
Maximum Reverse Recovery Time (Note 1)	Trr	50		nS
Typical Junction Capacitance (Note 2)	Сл	50		pF
Typical Thermal Resistance (Note 3)	Reja	25		°C/W
Operating Temperature Range	TJ	-55 to +150		°C
Storage Temperature Range	Тѕтс	-55 to +150		°C

Notes: 1. Measured with IF = 0.5A, IR = 1A, IRR = 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

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Ratings and Characteristic Curves

FIG. 1 – FORWARD CURRENT DERATING CURVE

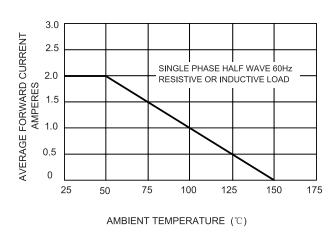


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

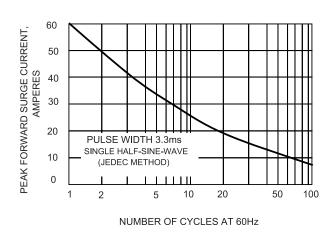


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

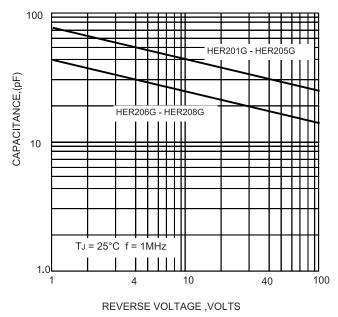
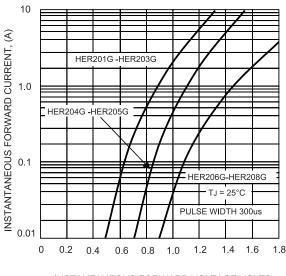


FIG.4-TYPICAL FORWARD CHARACTERISTICS

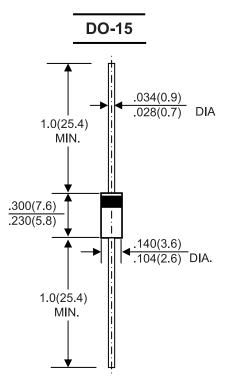


INSTANTANEOUS FORWARD VOLTAGE, VOLTS

High Efficiency Glass Passivated Rectifier



Dimensions:



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number		
High Efficiency Glass Passivated Rectifiers	HER202G		
	HER204G		

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