

RoHS Compliant



Features:

- · Glass passivated chip junction
- · High efficiency, Low V_F
- · High current capability
- · High reliability
- · High surge current capability
- For use in low voltage, high frequency inventor, free wheeling, and polarity protection application

Specifications:

Mechanical Data:

Cases : Moulded plastic DO-15

Lead : Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed

Polarity : Colour band denotes cathode end

High temperature soldering guaranteed : 260°C/10 seconds/0.375", (9.5mm) lead lengths at 5lbs., (2.3kg) tension

Mounting position : Any Weight : 0.4g

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%.

Type Number	Symbol	HER202G	HER204G	HER207G	HER208G	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	300	800	1,000	
Maximum RMS Voltage	V _{RMS}	70	210	560	700	V
Maximum DC Blocking Voltage	V _{DC}	100	300	800	1,000	
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length at T _A = 55°C	l(AV)	2				A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	60				A
Maximum Instantaneous Forward Voltage at 2A	V _F	1 1.7		.7	V	







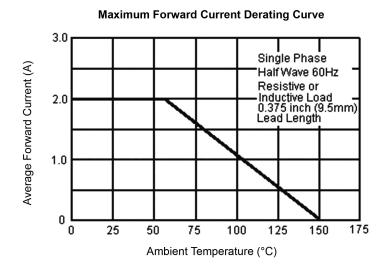
Type Number	Symbol	HER202G	HER204G	HER207G	HER208G	Units
Maximum DC Reverse Current at $T_A = 25^{\circ}$ C at Rated DC Blocking Voltage at $T_A = 125^{\circ}$ C	I _R	5 150			μA μA	
Maximum Reverse Recovery Time (Note 1)	T _{rr}	50		75		nS
Typical Junction Capacitance (Note 2)	C _j	35		20		pF
Typical Thermal Resistance	R _{θJA}	60			°C/W	
Operating Temperature Range	TJ	-65 to +150			°C	
Storage Temperature Range	T _{STG}					

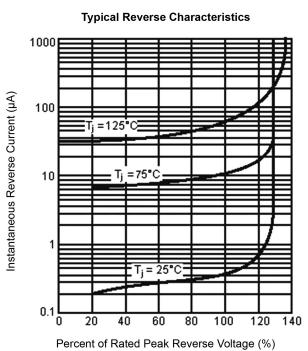
Note: 1. Reverse Recovery Test Conditions: $I_F = 0.5A$, $I_R = 1A$, $I_{RR} = 0.25A$.

Note: 2. Measured at 1MHz and Applied Reverse Voltage of 4V DC.

Note: 3. Mount on Cu-Pad Size 10mm x 10mm on PCB.

Ratings and Characteristic Curves (HER202G, HER204G, HER207G and HER208G)



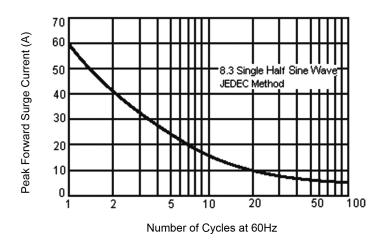


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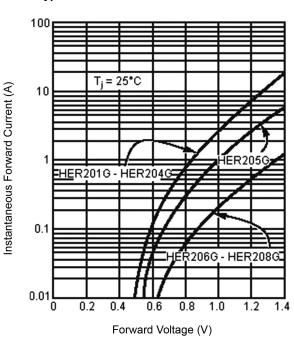




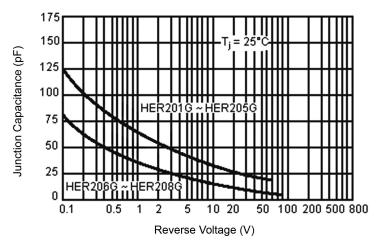
Maximum Non-Repetitive Forward Surge Current



Typical Instantaneous Forward Characteristics

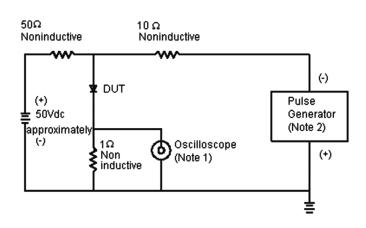


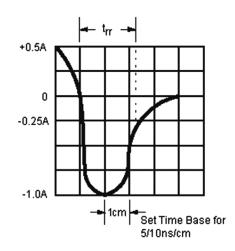
Typical Junction Capacitance





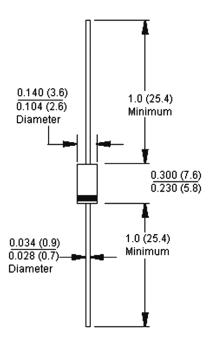
Reverse Recovery Time Characteristic and Test Circuit Diagram





Note: 1. Rise Time = 7ns Maximum. Input Impedance = $1M\Omega$ 22pf **Note:** 2. Rise Time = 10ns Maximum Source Impedance = 50Ω

DO-15



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number			
Diode, Fast, 2A, 100V	HER202G			
Diode, Fast, 2A, 300V	HER204G			
Diode, Fast, 2A, 800V	HER207G			
Diode, Fast, 2A, 1,000V	HER208G			

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