

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-41

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

Weight : 0.34g

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	HER102G	HER104G	HER106G	HER108G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	300	600	1,000	
Maximum RMS Voltage	V _{RMS}	70	210	420	700	V
Maximum DC Blocking Voltage	V _{DC}	100	300	600	1,000	
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length at T _A = 55°C	l(AV)	1				A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30				
Maximum Instantaneous Forward Voltage at 1A	V _F	1 1.7		V		







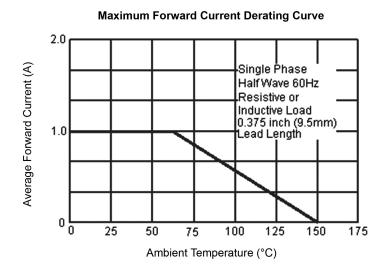
Type Number	Symbol	HER102G	HER104G	HER106G	HER108G	Units
Maximum DC Reverse Current at T _A = 25°C at Rated DC Blocking Voltage at T _A = 125°C	I _R	5 150			μ Α μ Α	
Maximum Reverse Recovery Time (Note 1)	T _{rr}	50		75		nS
Typical Junction Capacitance (Note 2)	C _j	15		10		pF
Typical Thermal Resistance	R _{θJA} R _{θJC}	70 15			°C/W	
Operating Temperature Range	TJ	-65 to +150			°C	
Storage Temperature Range	T _{STG}					

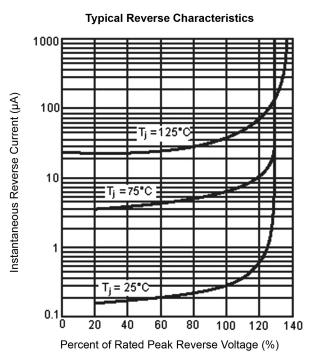
Note: 1. Reverse Recovery Test Conditions: I_F = 0.5A, I_R = 1A, I_{RR} = 0.25A.

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

Note: 3. Mount on Cu-Pad Size 5mm x 5mm on PCB.

Ratings and Characteristic Curves (HER102G, HER104G, HER106G, HER108G)



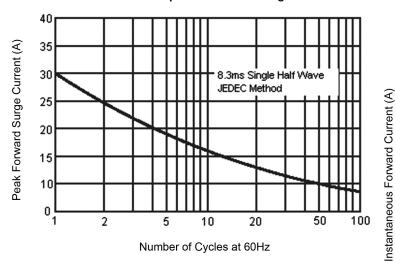


www.element14.com www.farnell.com www.newark.com

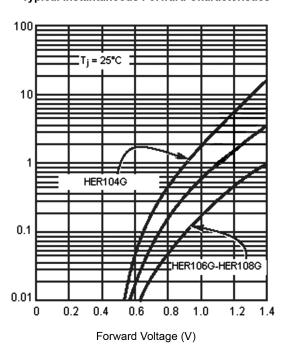




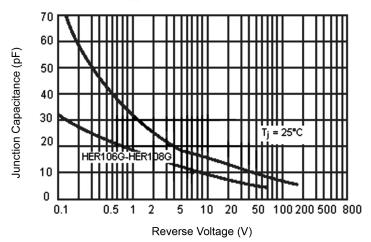
Maximum Non-Repetitive Forward Surge Current



Typical Instantaneous Forward Characteristics

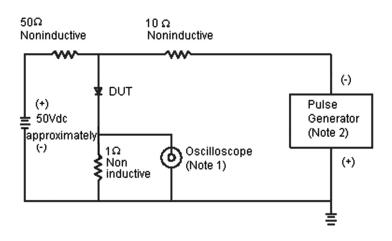


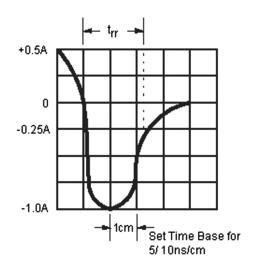
Typical Junction Capacitance





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

0.107 (2.7) 0.080 (2.0) Diameter 1.0 (25.4) Minimum 0.205 (5.2) 0.166 (4.2) 1.0 (25.4) Minimum 1.0 (25.4) Minimum 1.0 (25.4) Minimum

Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number			
Diode, Fast, 1A, 100V	HER102G			
Diode, Fast, 1A, 300V	HER104G			
Diode, Fast, 1A, 600V	HER106G			
Diode, Fast, 1A, 1,000V	HER108G			

Important Notice: This data sheet and its contents (the "Information") belong to the members of the Premier Farnell 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 is the registered trademark of the Group. © Premier Farnell plc 2012.

www.element14.com www.farnell.com www.newark.com



X-ON Electronics

Authorized Distributor

Click to view similar products for Taiwan Semiconductor manufacturer.

Other Similar products are found below:

 15KE100AR0
 15KE100CAR0
 15KE100CAR0G
 15KE10AR0
 15KE11A
 15KE11CA

 15KE11CAR0
 15KE12AR0
 15KE12CAR0
 15KE13AR0
 15KE15AR0
 15KE15CAR0

 15KE160A
 15KE160CA
 15KE16AR0
 15KE16CA
 15KE16CAR0
 15KE18A

 15KE18AR0
 15KE18CA
 15KE18CAR0
 15KE20A
 15KE20CAR0
 15KE220AR0

 15KE22A