

## Maximun Ratings and Electrical Characteristics at 25°C

	Marking Code	HER603G	HER605G	HER606G	HER607G	HER608G
V <sub>RRM</sub>	Maximum Recurrent Peak Reverse Voltage (V)	200	400	600	800	1000
$V_{RMS}$	Maximum RMS Voltage (V)	140	280	420	560	700
$V_{DC}$	Maximum DC Blocking Voltage (V)	200	400	600	800	1000
I <sub>F(AV)</sub>	Maximum Average Forward Rectified Current 9.5mm Lead Length @ T <sub>A</sub> = 55 °C  6.0 A					
I <sub>FSM</sub>	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)  150 A					
V <sub>F</sub>	Maximum Instantaneous Forward Voltage at 8.0A	1.0 V 1.3 V 1.7 V				
I <sub>R</sub>	Maximum DC Reverse Current @ T <sub>A</sub> = 25 °C at Rated DC Blocking Voltage @ T <sub>A</sub> = 125 °C			10 μA 200 μA		
T <sub>rr</sub>	Maximum Reverse Recovery Time from $I_F = 0.5A$ ; $I_R = 1A$ ; $I_{RR} = 0.25A$	50 ns			75 ns	
C <sub>j</sub>	Typical Junction Capacitance at 1 MHz and reverse voltage of 4V <sub>DC</sub>	80 pF		65 pF		
R <sub>th (j-a)</sub>	Typical Thermal Resistance 37 °C/W					
T <sub>j</sub>	Operating Temperature Range	-65 to + 150 °C				
T <sub>stg</sub>	Storage Temperature Range		-65 to + 150 °C			

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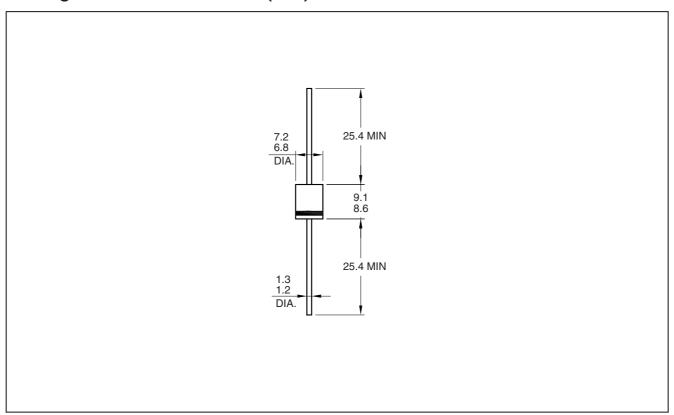
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# **Ordering information**

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
HER605G TR	TR	14" diameter tape and reel	1,000	1.65

## Package Outline Dimensions: (mm) R-6

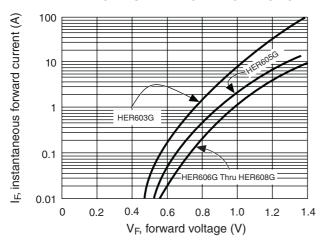


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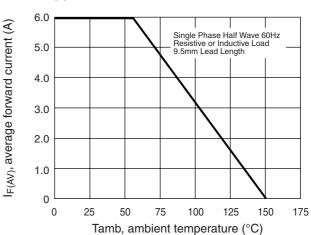


## Ratings and Characteristics (Ta 25 °C unless otherwise noted)

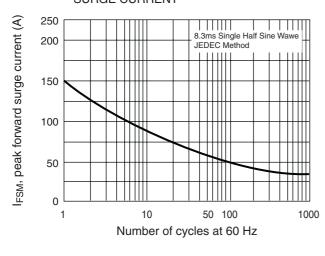
#### TYPICALFORWARD CHARACTERISTIC



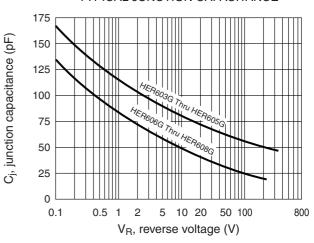
# MAXIMUM FORWARD CURRENT DERATING CURVE



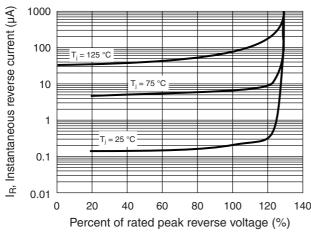
# MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



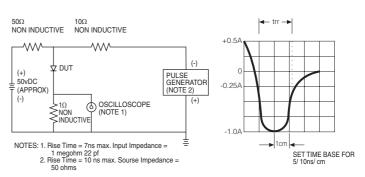
#### TYPICAL JUNCTION CAPACITANCE



#### TYPICAL REVERSE CHARACTERISTIC



#### REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





#### **Revision History**

Date	Revision	Description of Changes
20-Jun-2008	0	Original Data Sheet
5-Jul-2016	1	Format update

## **Disclaimer**

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