



**Glass Passivated High Efficient Rectifiers
Reverse Voltage 50 to 1000 Volts Forward Current 6.0 Amperes**

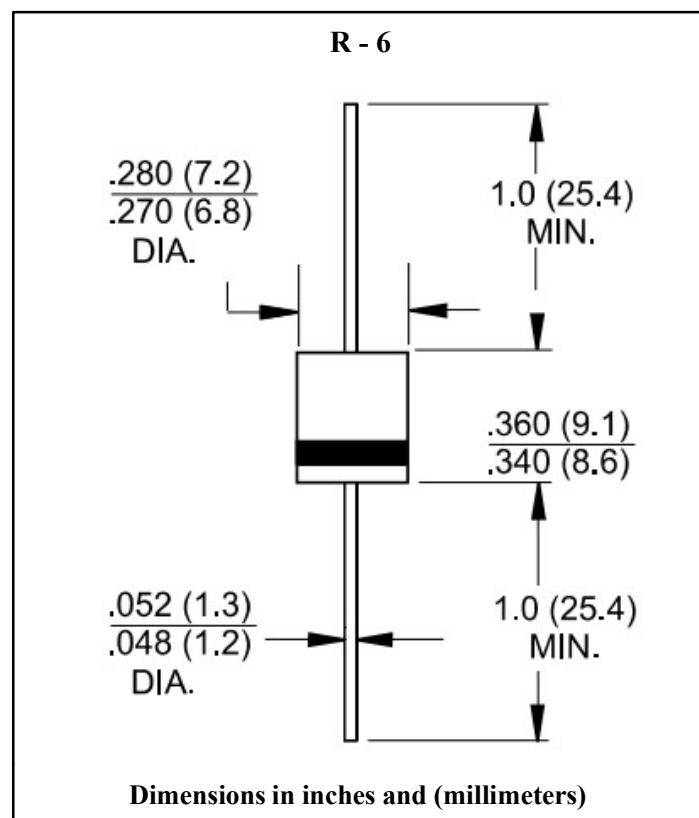
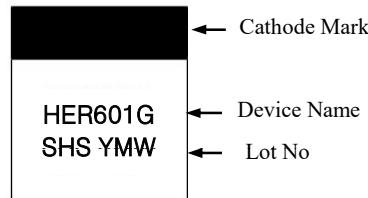
Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

Mechanical Data

- Case : Molded plastic
- Epoxy : UL 94V-0 rate flame retardant
- Lead : Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
- Polarity : Color band denotes cathode end
- High temperature soldering guaranteed : 260°C/10 seconds/0.375",(9.5mm) lead lengths at 5 lbs.,(2.3kg) tension
- Weight : 1.65 grams

Marking



Maximum Ratings & Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified

Single phase half wave 60 Hz, resistive or inductive load

For capacitive load, derate current by 20%

Parameter	Symbol	HER 601G	HER 602G	HER 603G	HER 604G	HER 605G	HER 606G	HER 607G	HER 608G	Unit	Remark				
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	800	1000	V					
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	420	560	700	V					
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	600	800	1000	V					
Maximum Average Forward Rectified Current 0.375"(9.5mm) Lead Length	I _(AV)	6.0								A					
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150								A					
Maximum Instantaneous Forward Voltage at 6.0A	V _F	1.0			1.3	1.7			V						
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	10.0								uA	T _a =25°C				
		200									T _a =125°C				
Maximum Reverse Recovery Time	t _{rr}	50				75				ns	Note 1				
Typical Junction Capacitance	C _J	37								pF	Note 2				
Operation Junction Temperature Range	T _J	-55 to +150								°C					
Storage Temperature Range	T _{STG}	-55 to +150								°C					

Note 1. Reverse Recovery Time Test Conditions : I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

Note 2. Measured at 1MHz and Applied Reverse Voltage of 4.0Volts D.C.

Note 3. Mount on Cu-Pad Size 16mm × 16mm on P.C. B



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

Fig.1 Forward Current Derating Curve

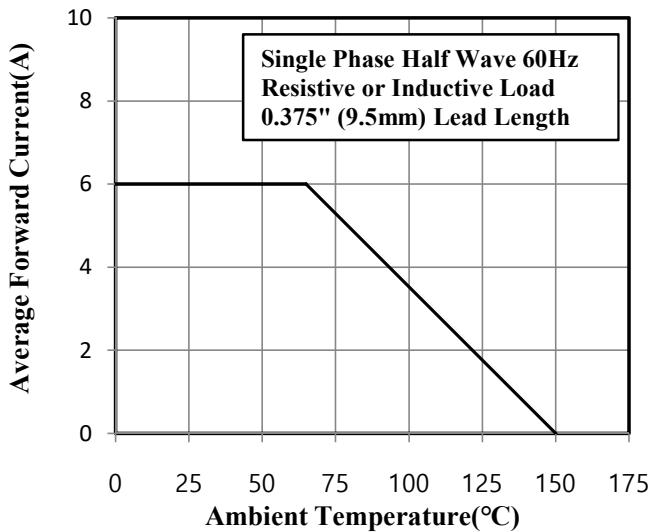


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

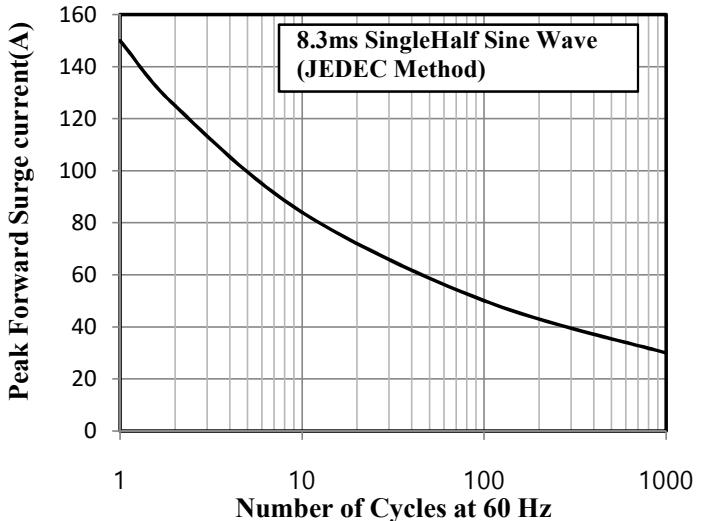


Fig.3 Typical Instantaneous Forward Characteristics

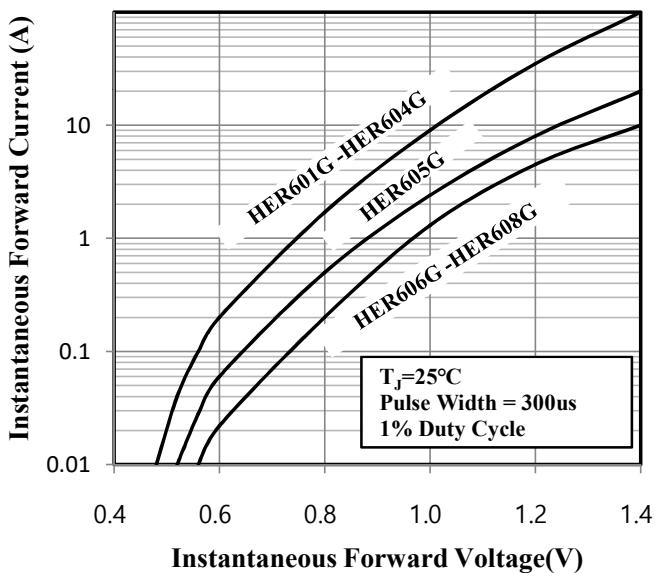


Fig.4 Typical Junction Capacitance

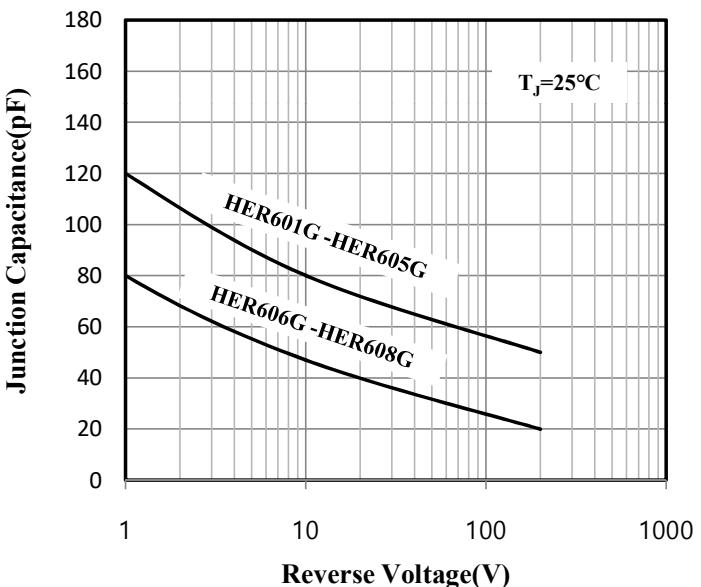


Fig.5 Typical Reverse Characteristics

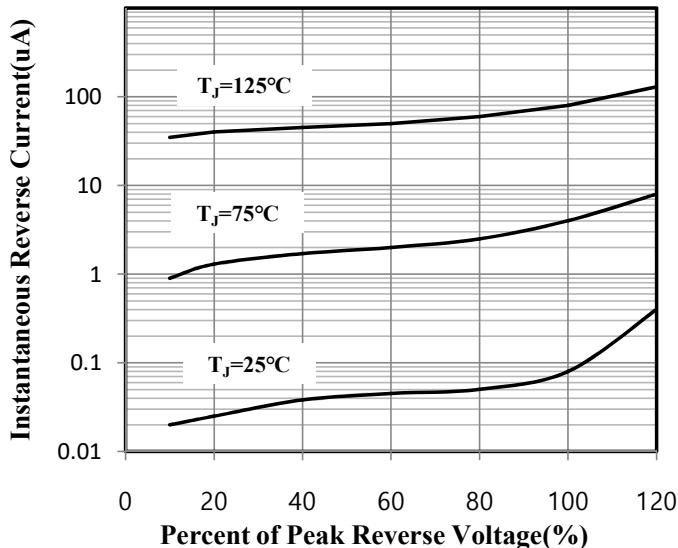


Fig. 6 Reverse Recovery Time Characteristic and Test Circuit Diagram

