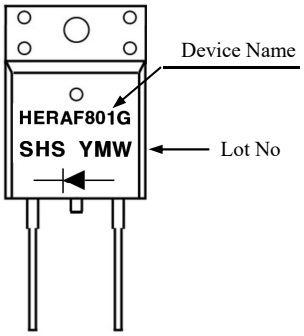
Glass Passivated Super Fast Rectifiers
Reverse Voltage 50 to 1000 Volts Forward Current 8.0 Amperes

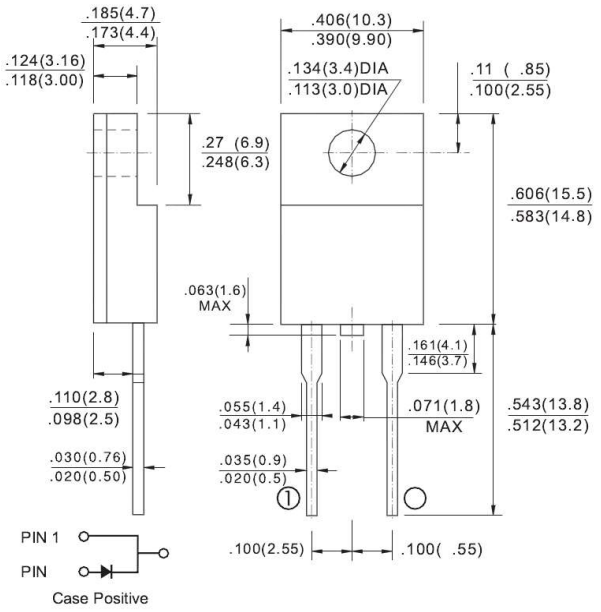
Features
- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

Mechanical Data
- Case : ITO-220AC Molded plastic
- Epoxy : UL 94V-O rate flame retardant
- Lead : Leads solderable per MIL-STD-202, method 208 guaranteed
- Polarity : As marked
- High temperature soldering guaranteed : 260℃/10 seconds /0.25",(6.35mm) from case
- Weight : 2.24 grams
- Mounting torque : 5 in-1bs. max.

Marking



ITO-220AC



Dimensions in inches and (millimeters)

Maximum Ratings & Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified
Single phase half wave 60 HZ, resistive or inductive load
For capacitive load, derate current by 20%

Parameter	Symbol	HERAF 801G	HERA F802G	HERA F803G	HERA F804G	HERA F805G	HERA F806G	HERA F807G	HERA F808G	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	$I_F(AV)$	8.0								A	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	150								A	
Maximum Instantaneous Forward Voltage @ 8.0A	V_F	1.0				1.3	1.7			V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	10								uA	Ta=25℃
		400								uA	Ta=100℃
Maximum Reverse Recovery Time	trr	50					80			ns	Note 1
Typical Junction Capacitance	C_J	80					60			pF	Note 2
Typical Thermal Resistance	Rth(j-c)	2.0								℃ /W	Note 3
Operation Junction Temperature Range	T_J	-55 to +150								℃	
Storage Temperature Range	T_{STG}	-55 to +150								℃	

Note 1. Reverse Recovery 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 Heatsink Size of 2in ×3in × 0.25 in Al-Plate.

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

Fig.1 Forward Current Derating Curve

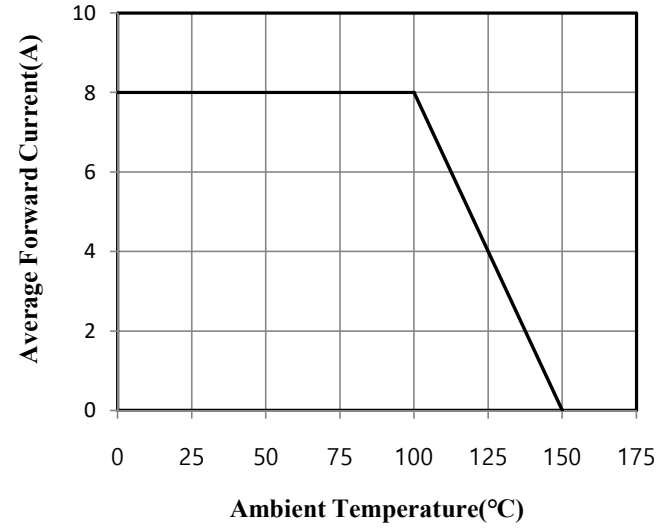


Fig.2 Maximum Non-Repetitive Peak Forward Surage Current

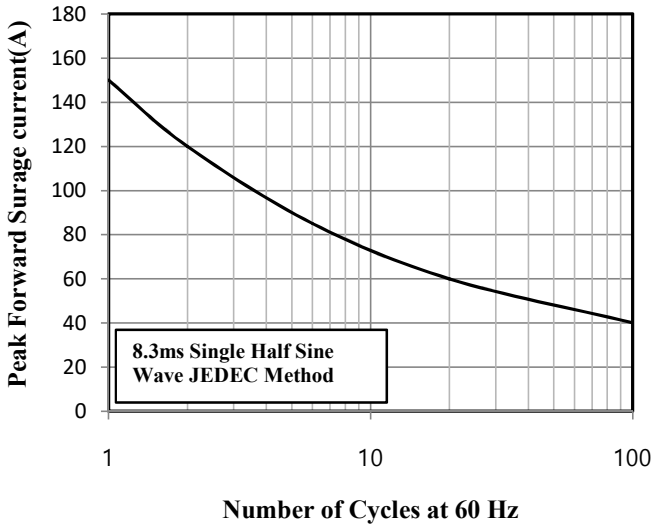


Fig.3 Typical Instantaneous Forward Characteristics

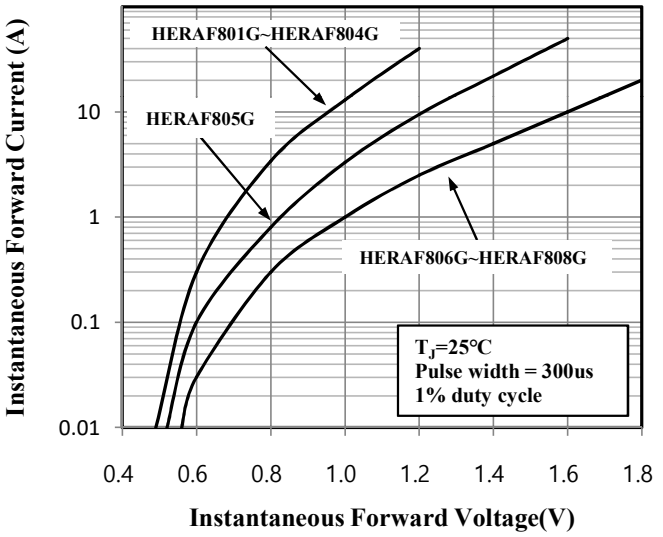


Fig.4 Typical Junction Capacitance

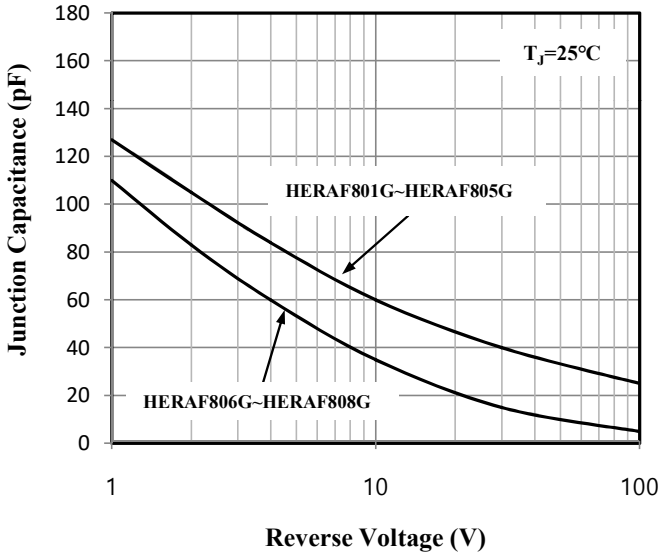


Fig.5 Typical Reverse Charateristics

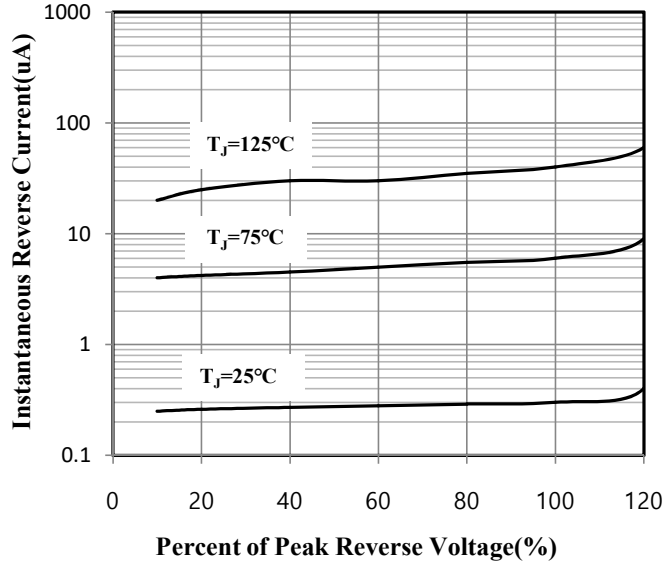


Fig. 6 Reverse Recovery Time Charateristic and Test Circuit Diagram