

# HER151G THRU HER157G

## ULTRAFAST EFFICIENT GLASS PASSIVATED RECTIFIER

VOLTAGE: 50 TO 1000V

CURRENT: 1.5A



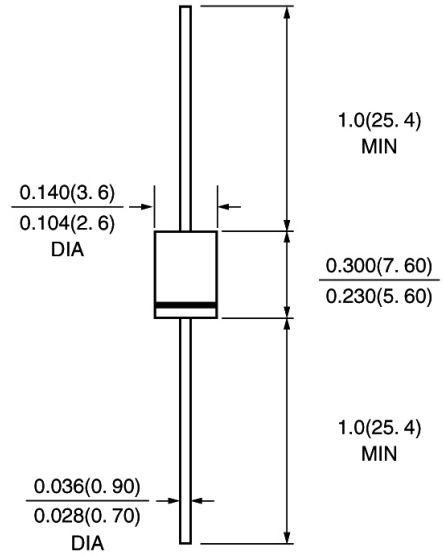
### FEATURE

Low power loss  
High surge capability  
Glass passivated chip junction  
Ultra-fast recovery time for high efficiency  
High temperature soldering guaranteed  
250°C/10sec/0.375" lead length at 5 lbs tension

### MECHANICAL DATA

Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C  
Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy  
Polarity: color band denotes cathode  
Mounting position: any

### DO-15/DO-204AC



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	HER 151 G	HER 152 G	HER 153 G	HER 154 G	HER 155 G	HER 156 G	HER 157 G	HER 158 G	units	
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	50	100	200	300	400	600	800	1000	V	
Maximum RMS Voltage	V <sub>rms</sub>	35	70	140	210	280	420	560	700	V	
Maximum DC blocking Voltage	V <sub>dc</sub>	50	100	200	300	400	600	800	1000	V	
Maximum Average Forward Rectified Current 3/8" lead length at Ta =65°C	I <sub>f(av)</sub>	1.5								A	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	50								A	
Maximum Forward Voltage at Forward current 1.5A Peak	V <sub>f</sub>	1.0			1.3		1.7			V	
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I <sub>r</sub>	10.0					100.0				μ A μ A
Maximum Reverse Recovery Time (Note 1)	T <sub>rr</sub>	50					75				nS
Typical Junction Capacitance (Note 2)	C <sub>j</sub>	50					30				pF
Typical Thermal Resistance (Note 3)	R <sub>th(ja)</sub>	25.0								°C/W	
Storage and Operating Junction Temperature	T <sub>stg,Tj</sub>	-55 to +150								°C	

#### Note:

- Reverse Recovery Condition I<sub>f</sub> =0.5A, I<sub>r</sub> =1.0A, I<sub>rr</sub> =0.25A
- Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- Thermal Resistance from Junction to Ambient at 3/8" lead length, P.C. Board Mounted

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

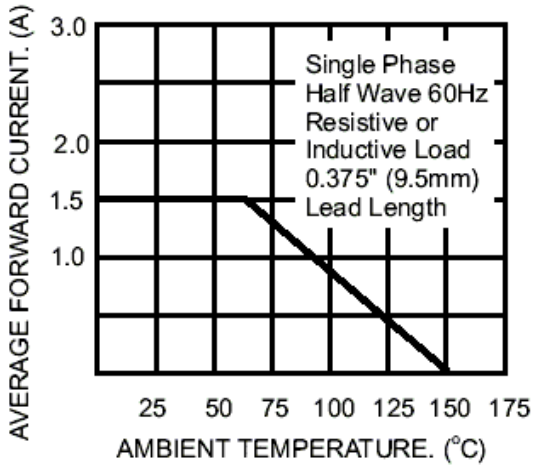


FIG.2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

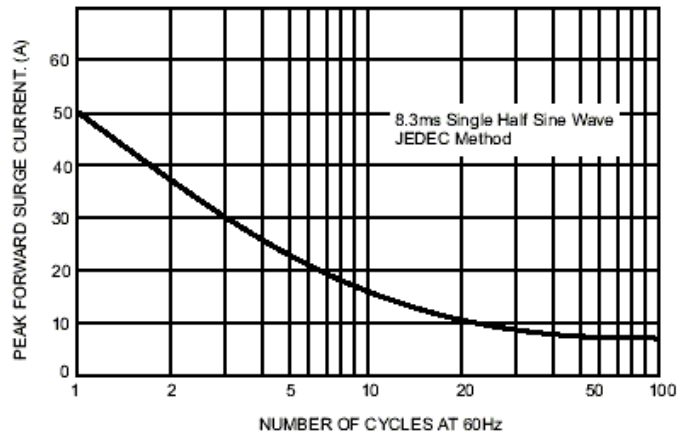


FIG.3- TYPICAL FORWARD CHARACTERISTICS

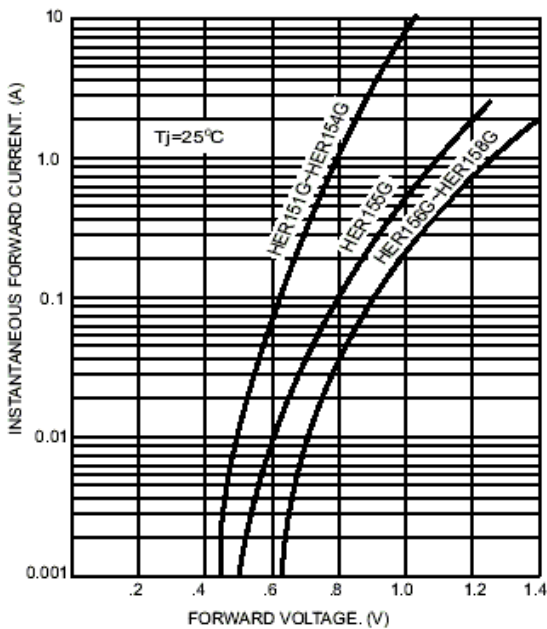


FIG.4- TYPICAL REVERSE CHARACTERISTICS

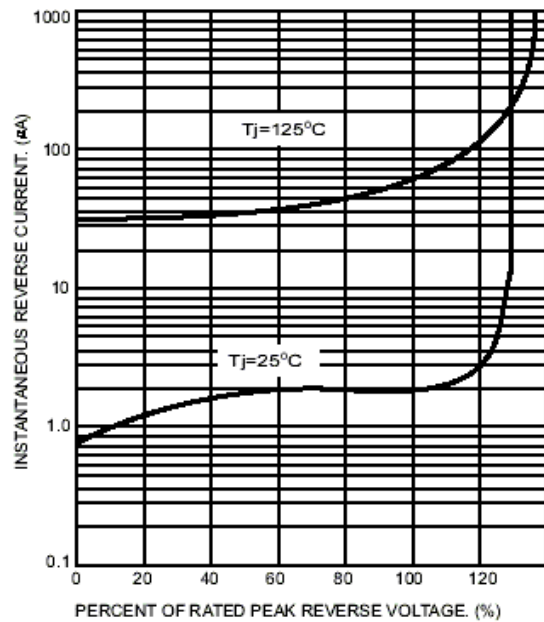


FIG.5- TYPICAL JUNCTION CAPACITANCE

