

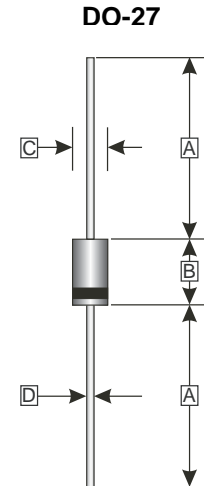
RoHS Compliant Product  
 A suffix of "-C" specifies halogen & lead-free

**FEATURES**

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

**PACKAGING INFORMATION**

- Glass Passivated
- 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
- Mounting position: Any
- Weight: 1.195 grams (approximately)



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	7.20	9.53
C	4.80	5.60
D	1.10	1.32

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.  
 For capacitive load, de-rate current by 20%.

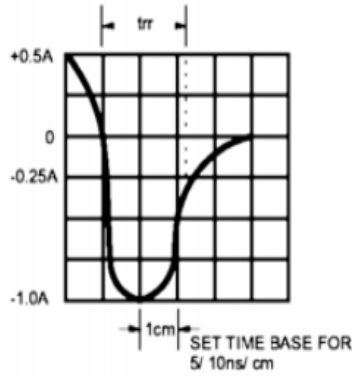
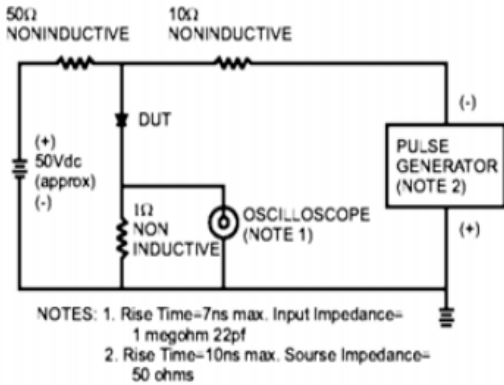
Parameter	Symbol	Part Number							Unit
		HER 301G	HER 302G	HER 303G	HER 304G	HER 305G	HER 306G	HER 307G	
Recurrent Reverse Voltage (Max.)	$V_{RRM}$	50	100	200	400	600	800	1000	V
RMS Voltage (Max.)	$V_{RMS}$	35	70	140	280	420	560	700	V
DC Blocking Voltage (Max.)	$V_{DC}$	50	100	200	400	600	800	1000	V
Instantaneous Forward Voltage (Max.) @ $I_F = 3A$	$V_F$	1		1.3	1.7			V	
Average Forward Rectified Current (Max.)	$I_O$	3.0							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	$I_{FSM}$	125							A
DC Reverse Current (Max.)	$T_A=25^\circ C$	10.0							$\mu A$
	$T_A=100^\circ C$	200							
Reverse Recovery Time (Max.)	$T_{RR}$	50				75			nS
Junction Capacitance (Typ.)	$C_J$	80				50			pF
Typical thermal resistance	$R_{\theta JA}$	20							$^\circ C / W$
Typical Thermal Resistance	$R_{\theta JL}$	5.6							$^\circ C / W$
Storage Temperature Range	$T_{STG}$	-55 ~ 150							$^\circ C$

Note:

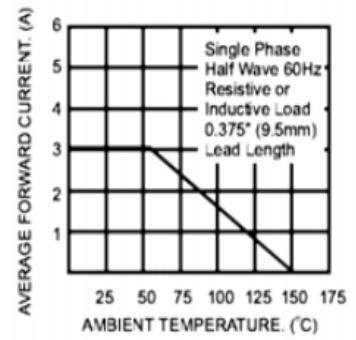
1.  $I_F=0.5A, I_R=1.0A, I_{RR}=0.25A$
2.  $f=1MHz$  and applied 4V DC reverse voltage
3. Thermal Resistance Junction to Ambient and from Junction to Lead at 0.375"(9.5mm) Lead Length P.C.B. Mounted.

**RATINGS AND CHARACTERISTIC CURVES**

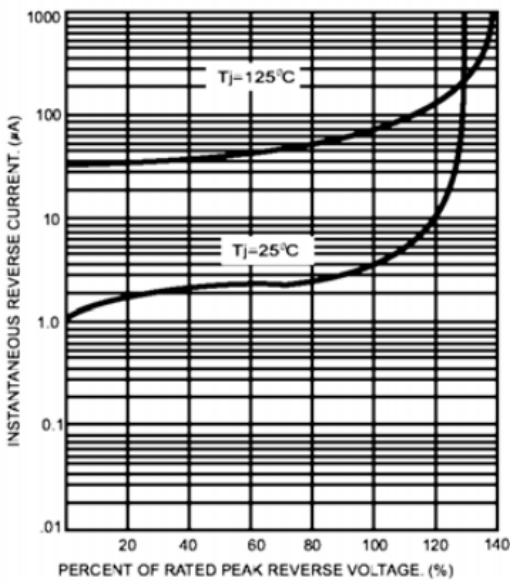
**FIG.1- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM**



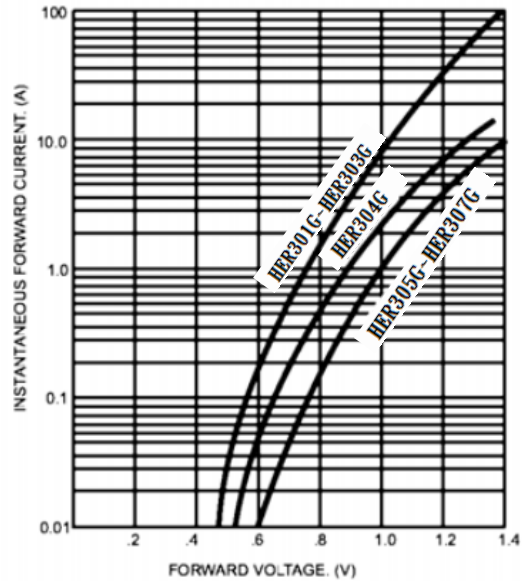
**FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE**



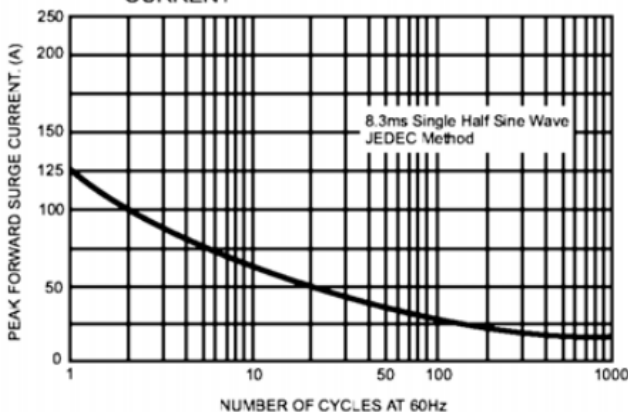
**FIG.3- TYPICAL REVERSE CHARACTERISTICS**



**FIG.4- TYPICAL FORWARD CHARACTERISTICS**



**FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



**FIG.6- TYPICAL JUNCTION CAPACITANCE**

