

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

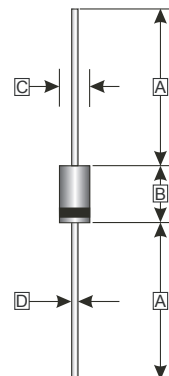
FEATURES

- 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: 0.34 grams (approximately)

DO-41



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	4.10	5.21
C	2.00	2.72
D	0.70	0.90

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

$T_{AMB} = 25^{\circ}\text{C}$ ambient temperature unless otherwise specified.
Single phase half-wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

PARAMETERS	SYMBOL	PART NUMBERS							UNITS	TESTING CONDITIONS
		HER 101 G	HER 102 G	HER 103 G	HER 104 G	HER 105 G	HER 106 G	HER 107 G		
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.)	V _F	1.00			1.30	1.70			V	I _F = 1A
Average Forward Rectified Current (Max.)	I _O	1.0							A	0.375" (9.5mm) lead length @ T _A = 55°C
Peak Forward Surge Current	I _{FSM}	30							A	8.3 ms single half sine-wave superimposed on rated load (JEDEC method)
DC Reverse Current (Max.)	I _R	5.0							μA	V _R = V _{DC} , T _A = 25°C
		150								V _R = V _{DC} , T _A = 100°C
Reverse Recovery Time (Max.)	T _{RR}	50				70			nS	I _F = 0.5A, I _R = 1.0A, I _{RR} = 0.25A
Junction Capacitance (Typ.)	C _J	20				15			pF	f = 1MHz and applied 4V DC reverse voltage
Storage Temperature Range	T _{STG}	-65 ~ 150							°C	

RATINGS AND CHARACTERISTIC CURVES (HER101G THRU HER107G)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

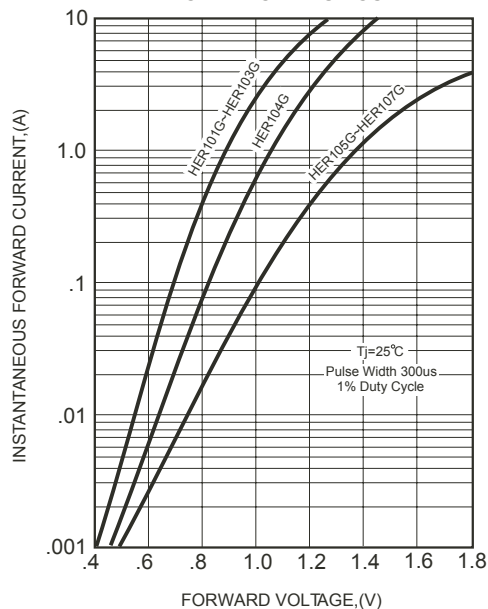


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

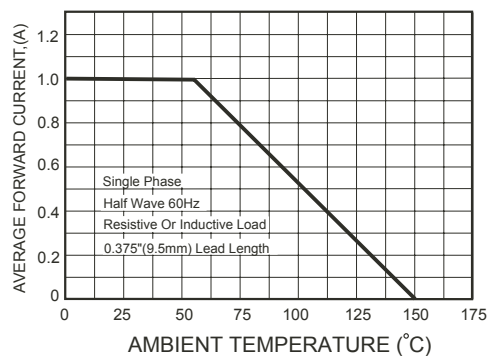
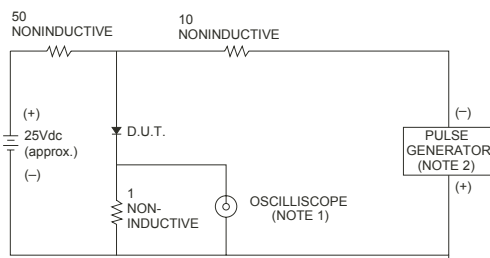


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF.
2. Rise Time= 10ns max., Source Impedance= 50 ohms.

FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

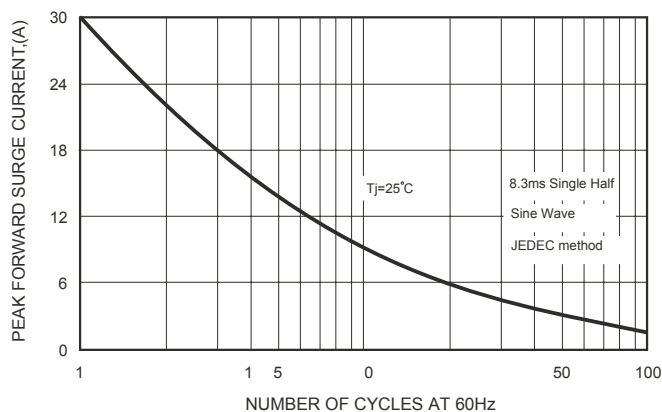


FIG.5-TYPICAL JUNCTION CAPACITANCE

