

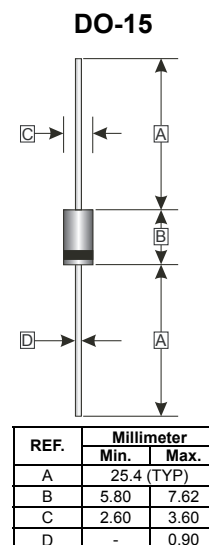
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

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

PACKAGING INFORMATION

- 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: 0.4300 grams (approximately)



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, derate current by 20%.

PARAMETERS	SYMBOL	PART NUMBERS							UNITS	TESTING CONDITIONS
		HER 201	HER 202	HER 203	HER 204	HER 205	HER 206	HER 207		
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		1.85		V	I _F = 2A
Average Forward Rectified Current (Max.)	I _O	2.0							A	0.375" (9.5mm) lead length @ T _A = 50°C
Peak Forward Surge Current	I _{FSM}	60							A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)
DC Reverse Current (Max.)	I _R	5.0							μA	V _R = V _{RRM} , T _A =25°C
		150								V _R =V _{RRM} , 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	30							pF	f=1MHz and applied 4V DC reverse voltage
Storage Temperature Range	T _{STG}	-65 ~ 150							°C	

RATINGS AND CHARACTERISTIC CURVES (HER201 THRU HER207)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

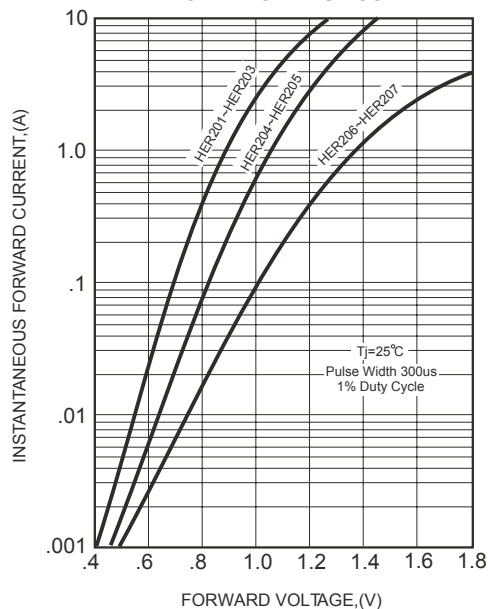


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

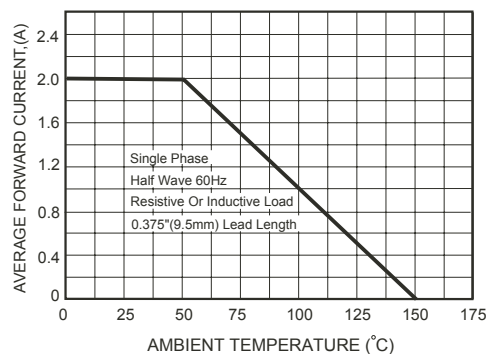
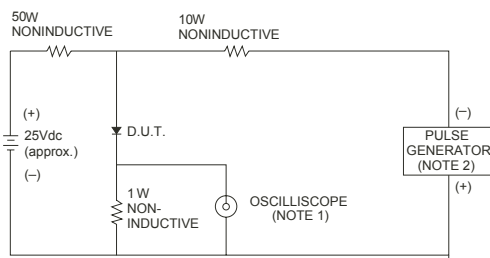


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



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

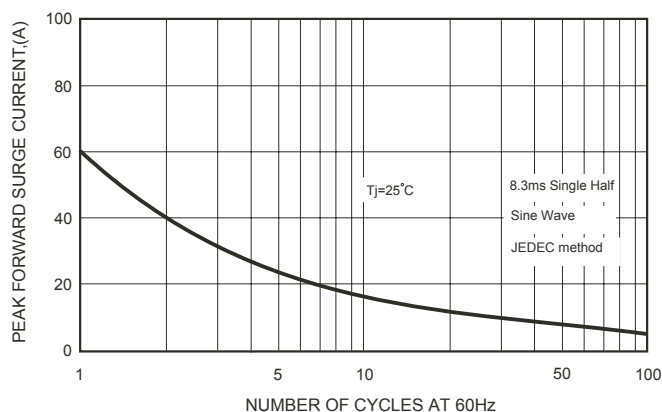


FIG.5-TYPICAL JUNCTION CAPACITANCE

