



HER151G THRU HER158G

PINGWEI ENTERPRISE

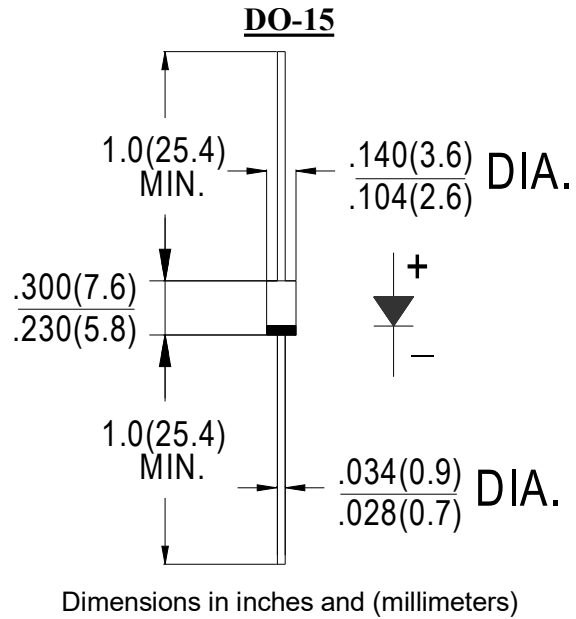
1.5AMPS.GLASS PASSIVATED HIGH EFFICIENT RECTIFIERS

FEATURE

- . Low leakage
- . High current capability
- . High surge capability
- . High reliability
- . High temperature soldering guaranteed
260°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
- . Weight: 0.356 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Type Number	SYM BOL	HER 151G	HER 152G	HER 153G	HER 154G	HER 155G	HER 156G	HER 157G	HER 158G	units	
Maximum Recurrent 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 .375"(9.5mm) lead length at $T_L = 100^\circ\text{C}$	$I_{F(AV)}$	1.5								A	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50								A	
Maximum Instantaneous forward Voltage at 1.5A DC	V_F	1.0			1.3		1.7			V	
Maximum DC Reverse Current @ $T_A = 25^\circ\text{C}$ at rated DC blocking voltage @ $T_A = 100^\circ\text{C}$	I_R	5.0 100.0								μA	
Maximum Reverse Recovery Time (Note 1)	t_{rr}	50					75				nS
Typical Junction Capacitance (Note 2)	C_J	15					8				pF
Typical Thermal Resistance (Note 3)	$R_{(JA)}$	75								$^\circ\text{C}/\text{W}$	
Storage Temperature	T_{STG}	-55 to +150								$^\circ\text{C}$	
Operation Junction Temperature	T_J	-55 to +150								$^\circ\text{C}$	

Note:

1. Test Conditions: $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
3. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, vertical P.C.Board Mounted.

RATING AND CHARACTERISTIC CURVES (HER151G THRU HER158G)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

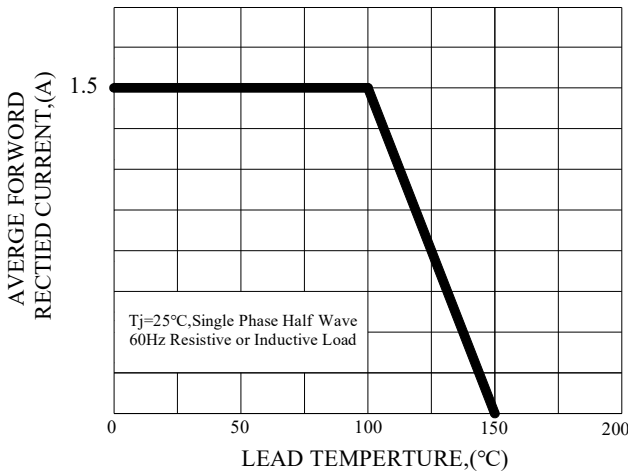


FIG.2-TYPICAL INSTANTENOUS FORWARD CHATACTERISTICS

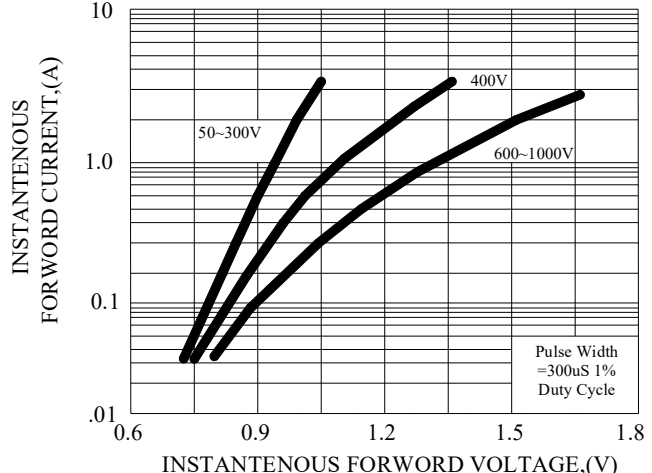


FIG.3-MAXIMUN NON-REPEITIVE FORWARD SURGE CURRENT

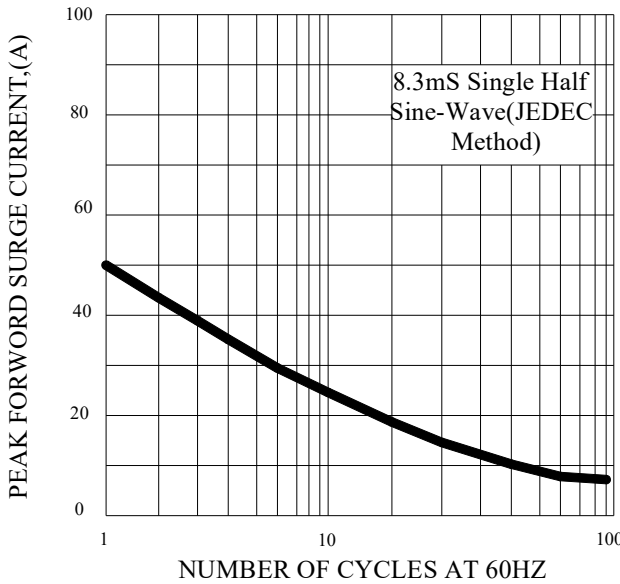


FIG.4-TYPICAL REVERSE CHATACTERISTICS

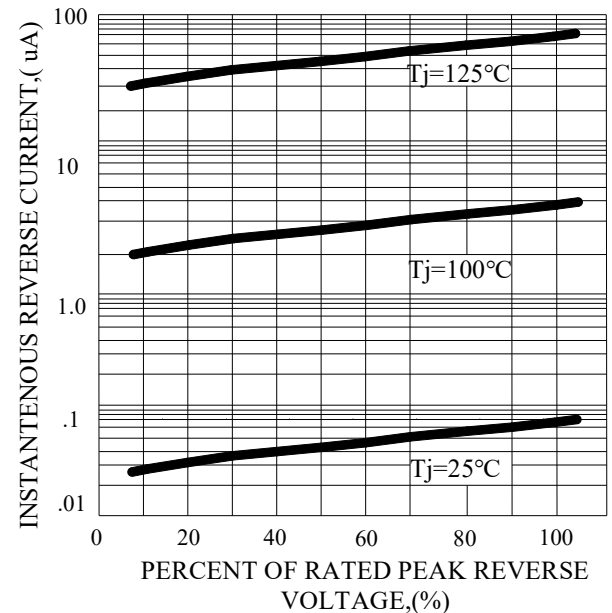
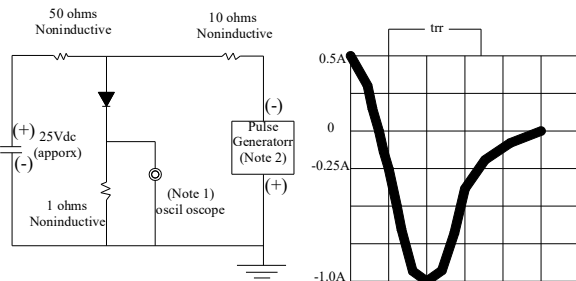


FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



Notes: 1 Rise Time=7nS max, Input Impedance=1mogohm,22pF
 2 Rise Time=10nS max, Soule Impedance= 50ohms

FIG.6-TYPIAL JUNCTION CAPAOTANCE

