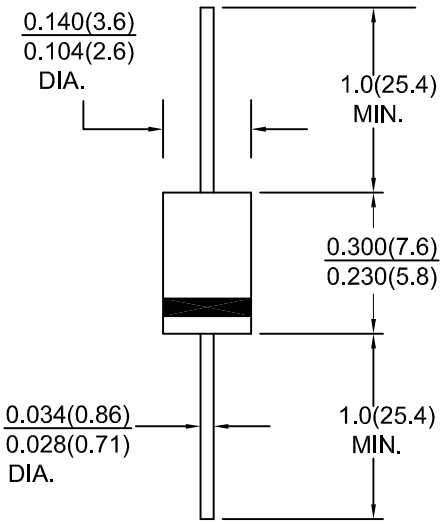
HER201G THRU HER208G

HIGH EFFICIENCY GLASS PASSIVATED RECTIFIERS

FEATURES:

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

DO-15



Dimensions in inches and (millimeters)

MECHANICAL DATA

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 : 0.40 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temp. unless otherwise specified.
Single phase, half sine wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20 %.

Characteristic	Symbol	HER 201G	HER 202G	HER 203G	HER 204G	HER 205G	HER 206G	HER 207G	HER 208G	Units
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	300	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	210	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	600	800	1000	Volts
Maximum average forward rectified current .375"(9.5mm) lead length at Ta=50℃	$I_{(AV)}$	2.0								Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I_{FSM}	60								Amps
Maximum instantaneous forward voltage at 2.0 A	V_F	1.0			1.30		1.7			Volts
Maximum DC reverse current at rated DC blocking voltage Ta=25℃ / Ta=125℃	I_R	5.0 / 150								μA
Maximum reverse recovery time (note 1)	trr	50					75			nS
Typical junction capacitance (note 2)	C_j	30								pF
Operating and storage temperature range	T_j, T_{stg}	-65 to +150								℃

Notes : 1. Reverse recovery test condition : I_F=0.5A ; I_R=1.0A ; I_{RR}=0.25A
2. Measured 1MHz and applied reverse voltage of 4.0V DC

FIG.1-TYPICAL FORWARD CHARACTERISTICS

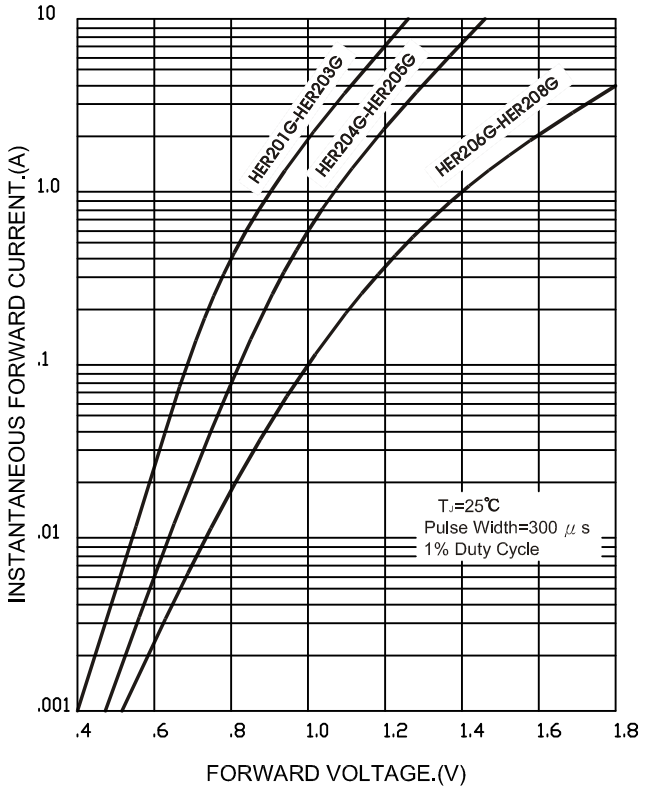


FIG.2 - TYPICAL FORWARD CURRENT DERATING CURVE

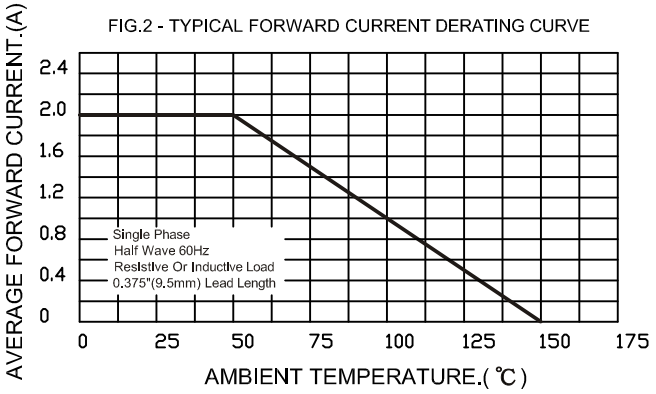


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

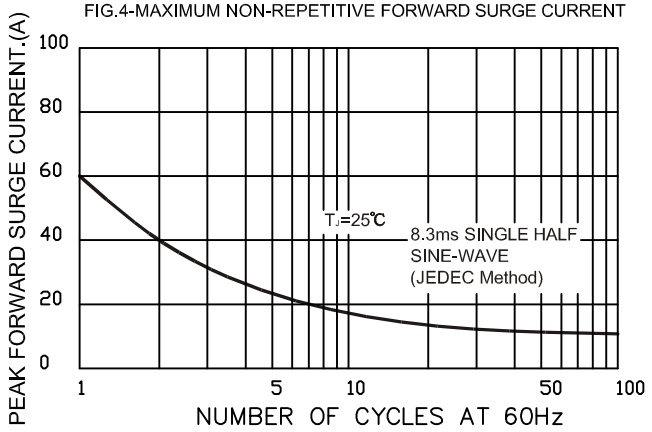
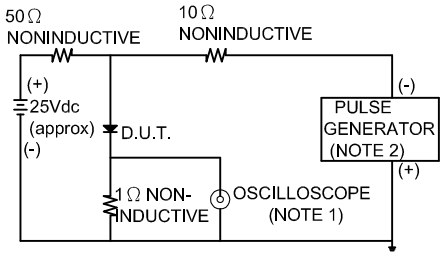
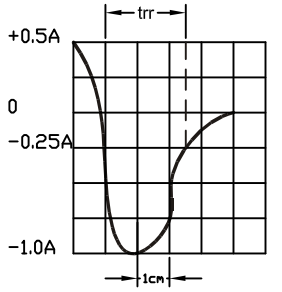


FIG.3-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



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



SET TIME BASE FOR
50/10ns/cm

FIG.5-TYPICAL JUNCTION CAPACITANCE