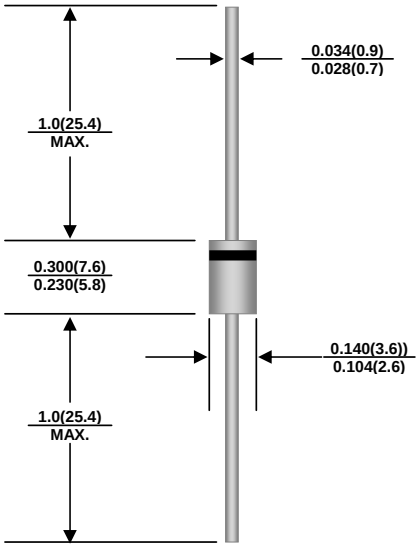
HER201G THRU HER208G

HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Ampere

DO-15



Dimensions in inches and (millimeters)

FEATURES

- Low power loss, high efficiency
- Low leakage
- Low forward voltage drop
- High current capability
- High speed switching
- High current surge
- High reliability
- Pb free product : 99% Sn above can meet RoHS environment substance directive request

MECHANICAL DATA

Case: JEDEC DO-15, Molded plastic
Terminals: Solderable per MIL-STD-750，Method 2026
Epoxy: UL94V-0 rate flame retardant
Approx. Weight: 0.014 ounce, 0.395 gram
Mounting Position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwis e specified.
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

PARAMETER	*SYMBOLS*	HER 201G	HER 202G	HER 203G	HER 205G	HER 206G	HER 207G	HER 208G	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Average Rectified current at T_A =50℃	$I_{(AV)}$	2.0							Amp
Non-repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	60							Amps
Maximum Forward Voltage at I_F=2.0A	V_F	1.0			1.3	1.5	1.7		Volts
Maximum DC reverse current at rated DC blocking voltage at T_A=25℃	I_R	1.0							μA
Maximum reverse recovery time (NOTE 1)	t_{rr}	50				75			nS
Typical Junction Capacitance (NOTE 2)	C_J	30				20			pF
Operating Junction & Storage Temperature Range	T_J, T_{STG}	-65 to +150							℃

Note: 1. Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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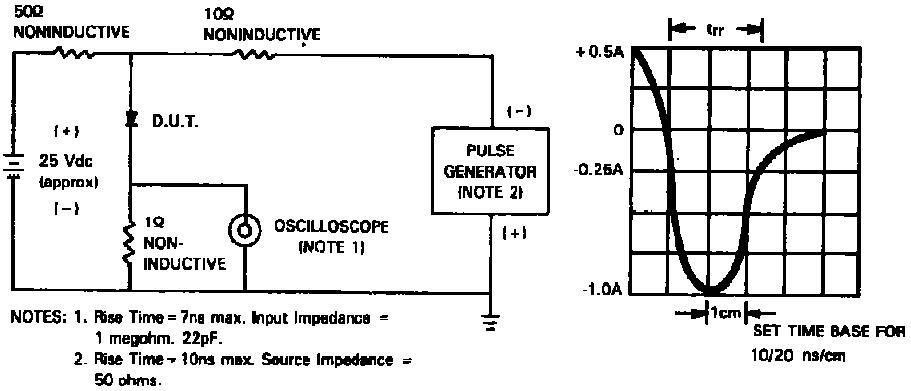
RATINGS AND CHARACTERISTIC CURVES

FIG. 1 – TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



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

FIG. 2 – TYPICAL FORWARD CURRENT DERATING CURVE

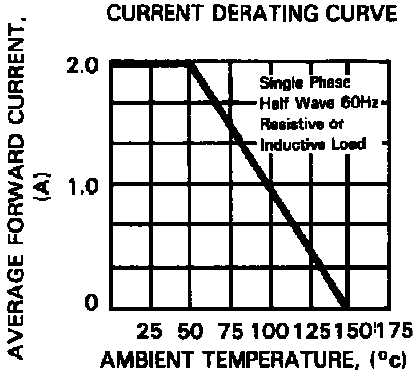


FIG. 3 – TYPICAL REVERSE CHARACTERISTICS

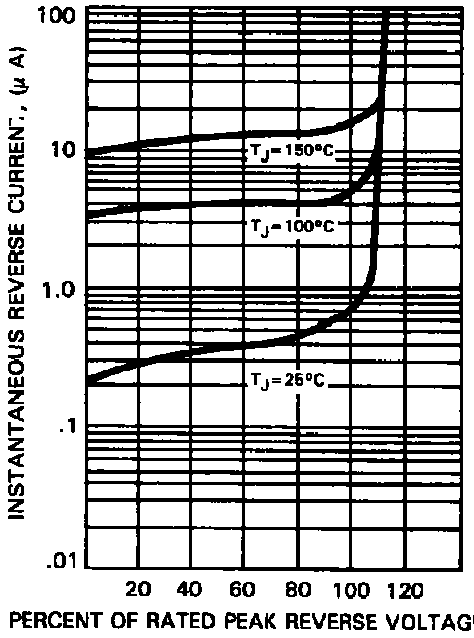


FIG. 4 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

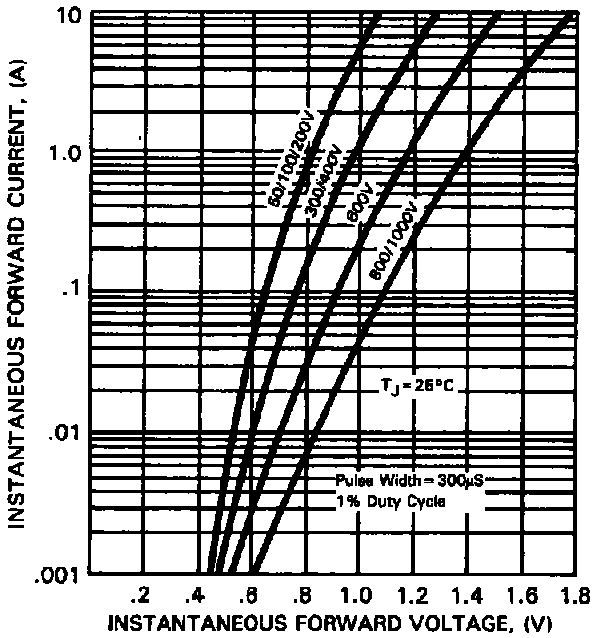


FIG. 5 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

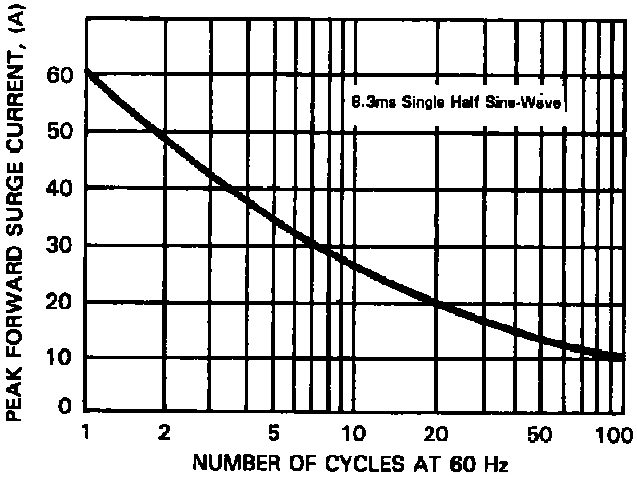


FIG. 6 – TYPICAL JUNCTION CAPACITANCE