

GLASS PASSIVATED RECTIFIER

VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 3.0 A

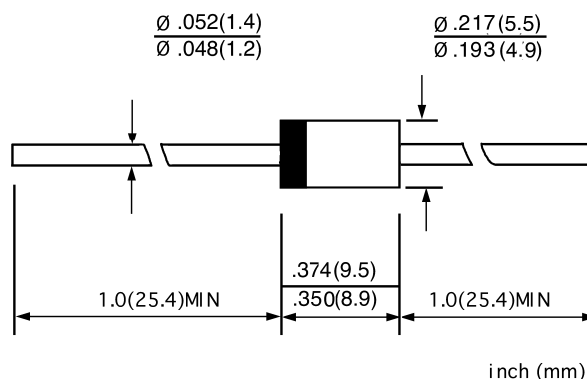
FEATURES

- ◇ Low cost
- ◇ Glass passivated junction
- ◇ Low leakage
- ◇ Low forward voltage drop
- ◇ High current capability
- ◇ Easily cleaned with Freon,Alcohol,Isopropanol and similar solvents
- ◇ The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

- ◇ Case: JEDEC DO-27, molded plastic
- ◇ Terminals: Axial lead ,solderable per ML- STD-202,Method 208
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.041ounces,1.15grams
- ◇ Mounting position: Any

DO - 27



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

		HER 301G	HER 302G	HER 303G	HER 304G	HER 305G	HER 306G	HER 307G	HER 308G	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 9.5mm lead length, @T _A =75°C	I _{F(AV)}	3.0								A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @T _J =125°C	I _{FSM}	200.0					150.0			A
Maximum instantaneous forward voltage @3.0 A	V _F	1.0			1.3		1.7			V
Maximum reverse current @T _A =25°C at rated DC blocking voltage @T _A =100°C	I _R	10.0 150.0								μ A
Maximum reverse capacitance (Note1)	t _{rr}	50					75			ns
Typical junction capacitance (Note2)	C _J	70					50			pF
Typical thermal resistance (Note3)	R _{θJA}	30.0								°C/W
Operating junction temperature range	T _J	- 55---- +175								°C
Storage temperature range	T _{STG}	- 55---- + 175								°C

NOTE:1. Measured with $I_F=0.5A$, $I_R=1A$, $I_{rr}=0.25A$.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V

3. Thermal resistance from junction to ambient.

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FIG.1 -FORWARD DERATING CURVE

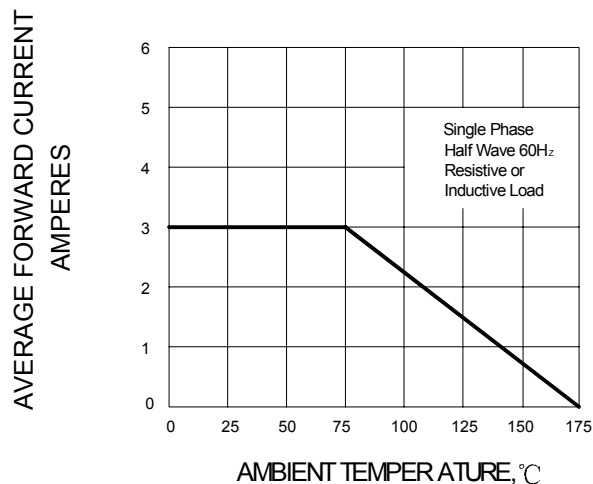


FIG.2 -TYPICAL REVERSE CHARACTERISTICS

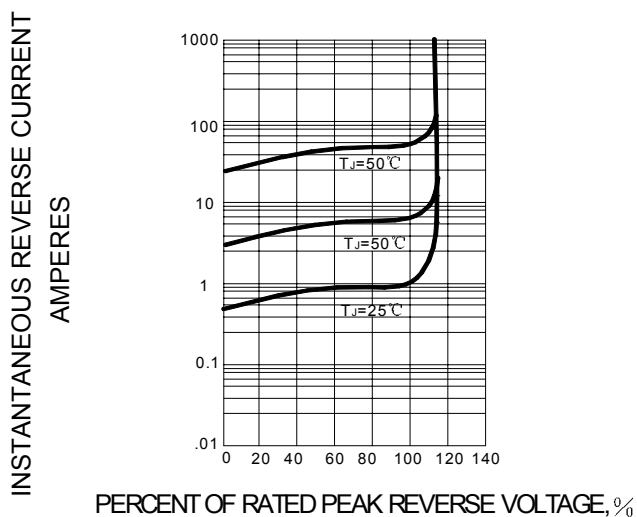


FIG.3-TYPICAL FORWARD CHARACTERISTICS

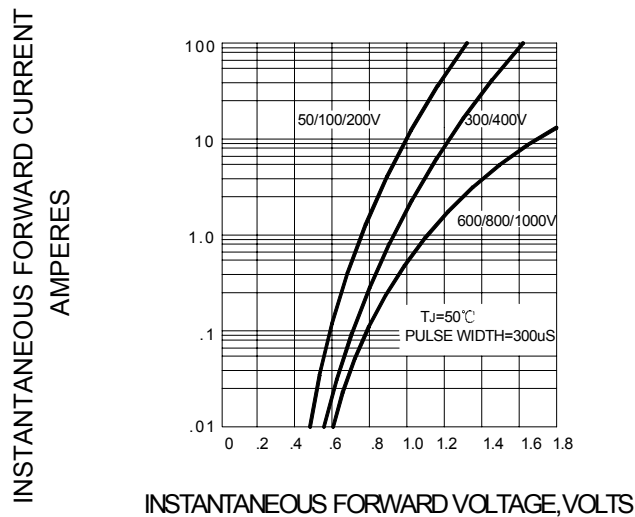


FIG.4-PEAK FORWARD SURGE CURRENT

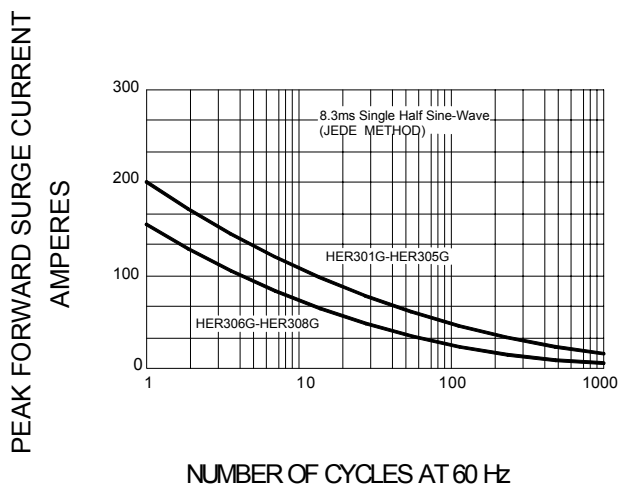


FIG.5-TYPICAL JUNCTION CAPACITANCE

