

GLASS PASSIVATED RECTIFIER

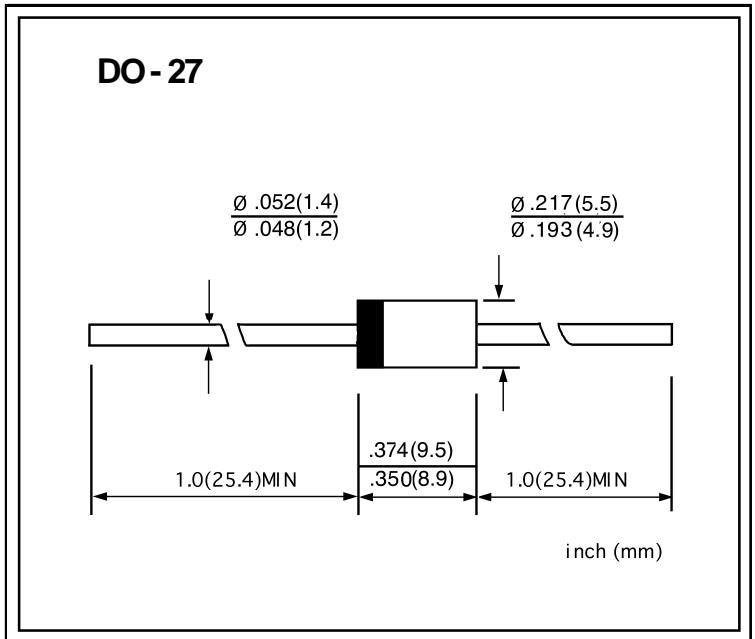
VOLTAGE RANGE: 50 — 1000 V
CURRENT: 3.0 A

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: 0.041 ounces, 1.15 grams
- ◇ Mounting position: Any



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, @ $T_A=75^\circ C$	$I_{F(AV)}$	3.0								A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_J=125^\circ C$	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 @ $T_A=25^\circ C$ at rated DC blocking voltage @ $T_A=100^\circ C$	I_R	10.0					150.0			μA
Maximum reverse capacitance (Note1)	t_{rr}	50					75			ns
Typical junction capacitance (Note2)	C_J	70					50			pF
Typical thermal resistance (Note3)	$R_{\theta JA}$	30.0								$^\circ C/W$
Operating junction temperature range	T_J	- 55 — + 175								$^\circ C$
Storage temperature range	T_{STG}	- 55 — + 175								$^\circ C$

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

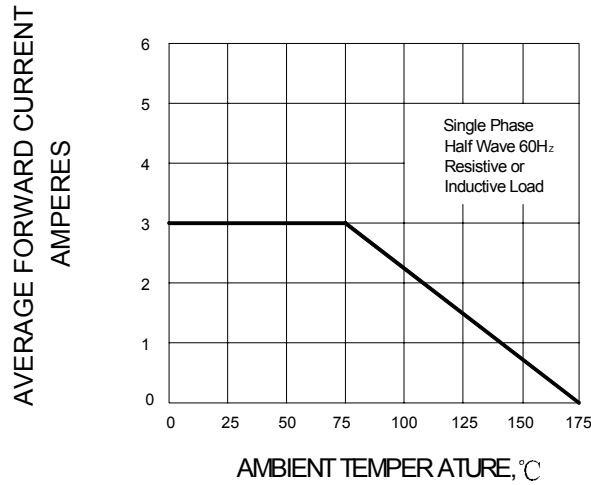


FIG.2 –TYPICAL REVERSE CHARACTERISTICS

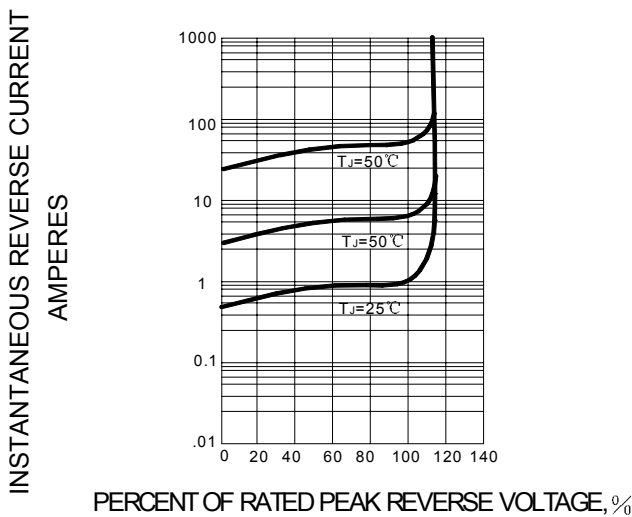


FIG.3–TYPICAL FORWARD CHARACTERISTICS

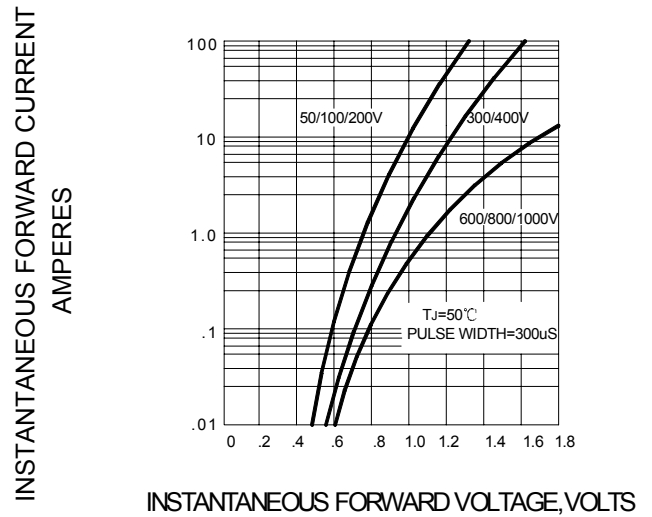


FIG.4–PEAK FORWARD SURGE CURRENT

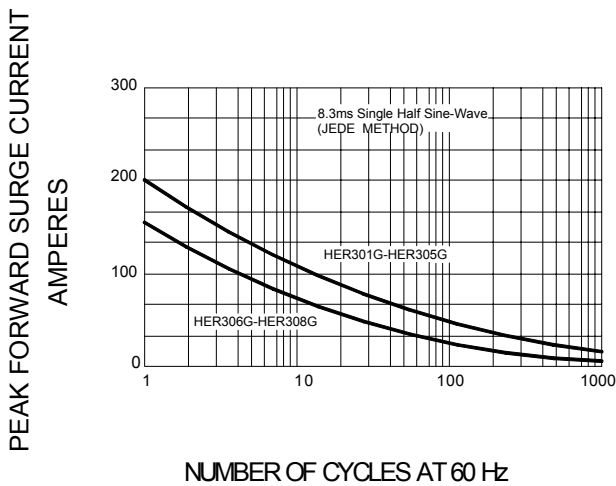


FIG.5–TYPICAL JUNCTION CAPACITANCE

