



HER301G~HER308G

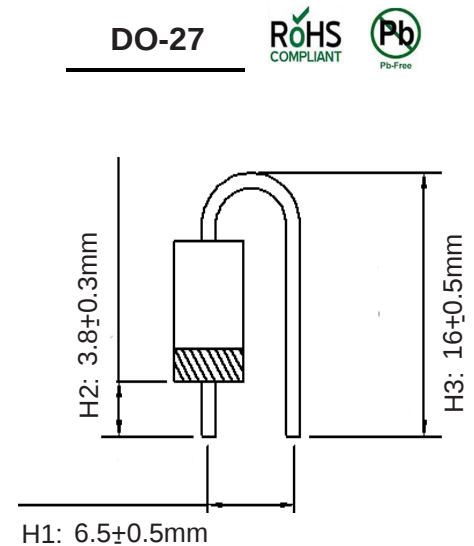
3.0Amp High Efficiency Silicon Rectifiers

Features

The plastic package carries Underwriters Laboratory
Flammability Classification 94V-0
Open Junction chip
Low reverse leakage
High forward surge current capability
High temperature soldering guaranteed
250°C/10 seconds at terminals

Mechanical Data

Case : Molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
Polarity : Polarity symbol marking on body
Mounting Position : Any
Weight : 0.0345 ounce, 0.98 grams



Dimensions in inches and (millimeters)

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 current derate by 20%.

Parameter	SYMBOLS	HER 301G	HER 302G	HER 303G	HER 304G	HER 305G	HER 306G	HER 307G	HER 308G	UNITS
Maximum repetitive 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 at T _L =100°C	I _(AV)	3.0								A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	200.0								A
Maximum instantaneous forward voltage at 3.0A	V _F	1.0				1.4	1.7			V
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =125°C	I _R	10.0 150								uA
Maxinum reverse recovery time(Note 1)	T _{rr}	50					75			ns
Typical junction capacitance (Note2)	C _J	70.0								pF
Typical thermal resistance	R _{qJA}	30.0								°C/W
Operating junction and storage temperature range	T _J ,T _{STG}	-55 to +150								°C

Note: 1.Reverse recovery time test condition: $I_F=0.5\text{A}$ $I_R=1.0\text{A}$ $I_{rr}=0.25\text{A}$
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.



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Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

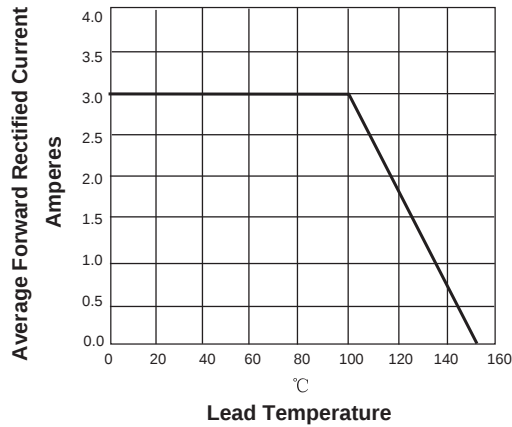


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

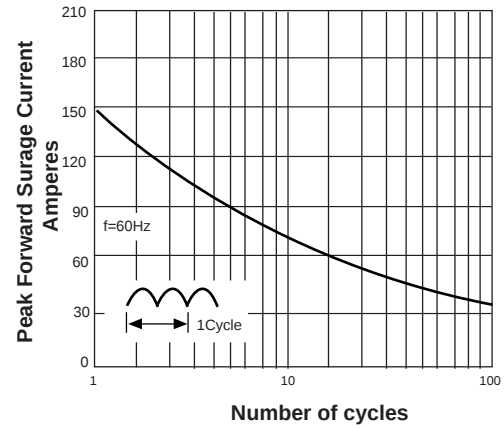


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

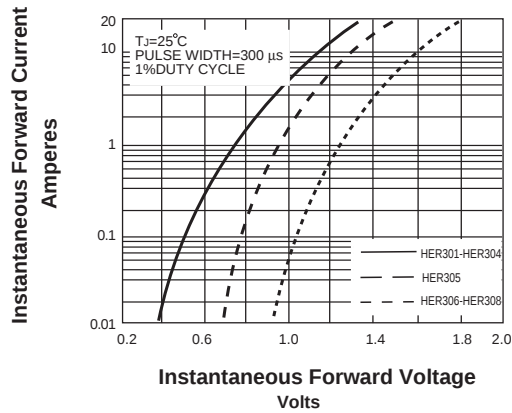
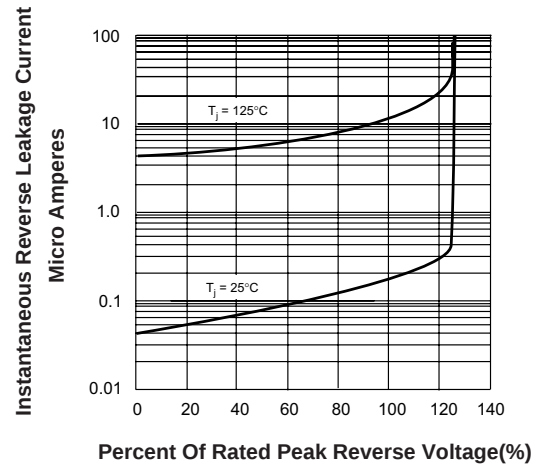


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking

Type number	Marking code
HER304G	HER304G SY