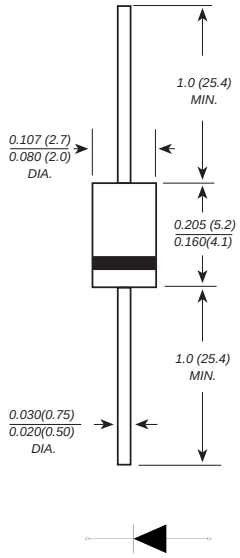
HER101G~HER108G

1.0Amp High Efficiency Silicon Rectifiers

DO-41

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℃/10 seconds at terminals



Dimensions in inches and (millimeters)

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 : 0.0088 ounce, 0.25 grams

Maximum Ratings And Electrical Characteristics

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

Parameter	SYMBOLS	HER 101G	HER 102G	HER 103G	HER 104G	HER 105G	HER 106G	HER 107G	HER 108G	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℃	$I_{(AV)}$	1.0								A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	35.0								A
Maximum instantaneous forward voltage at 1.0A	V_F	1.0				1.4	1.7			V
Maximum DC reverse current T_A =25℃ at rated DC blocking voltage T_A=125℃	I_R	10.0 500								u A
Maxinum reverse recovery time(Note 1)	Trr	50					75			ns
Typical junction capacitance (Note2)	C_J	25.0								pF
Typical thermal resistance	R_{qJA}	65.0								°C/W
Operating junction and storage temperature range	T_J,T_{STG}	-55 to +150								°C

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

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

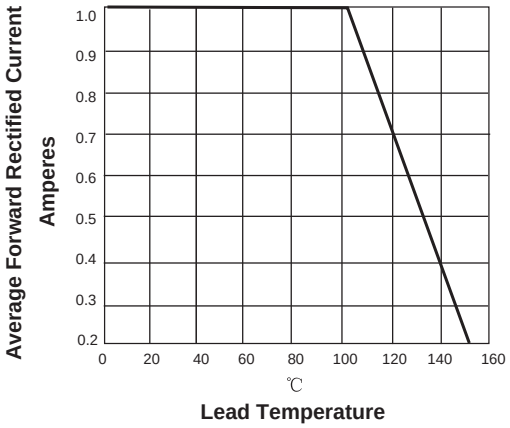


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

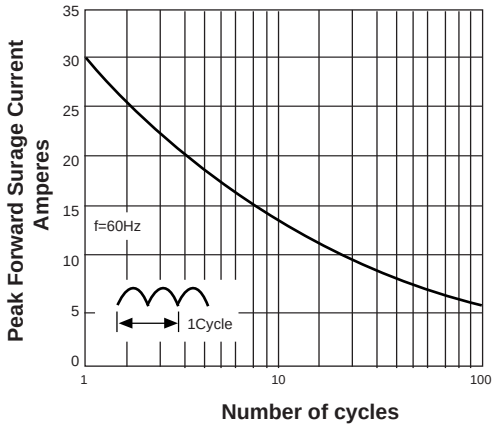


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

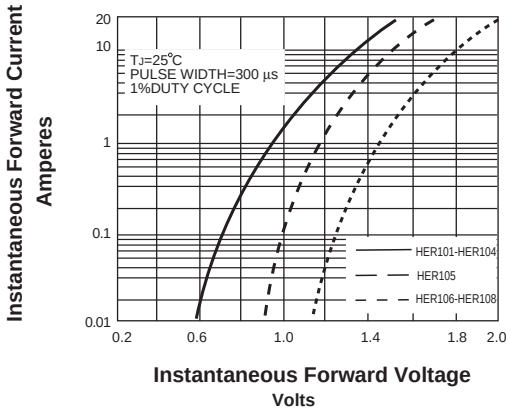


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS