DACO SEMICONDUCTOR CO., LTD.

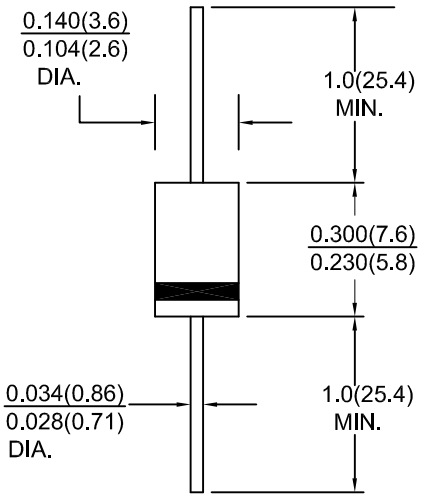
RL201 THRU RL207

SILICON RECTIFIER

DO-15

FEATURES:

- Plastic package Underwriters Laboratory Flammability Classification 94-0
- Construction plastic technique molded plastic technique
- Low reverse leakage,high efficiency
- Llow forward voltage drop
- High temperature soldering guaranteed: 250℃/10 seconds, 0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension



MECHANICAL DATA

Case : JEDEC DO-15 molded plastic
Teminals : Leads solderable per MIL-STD-750 Method 2026
Polarity : As marked
Mounting Postition : Any
Mounting Torque 5 in - lbs.max
Weight : 0.08 ounce,2.24 grams

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temperature unless otherwise specified.
Single phase half wave, 60 Hz resistive or inductive load.
For capacitive load. derate current by 20%.

Characteristic	Symbol	RL 201	RL 202	RL 203	RL 204	RL 205	RL 206	RL 207	Units
Maximum recurrent 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
Maximum average forward rectified current 0.375"(9.5mm) lead length at Tc=55℃	$I_{(AV)}$	2.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	70.0							Amps
Maximum instantaneous forward voltage IF=2.0A	V_F	1.1							Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	I_R	5.0 50.0							μA
Typical thermal resistance (NOTE1)	R_{th}-JC	50.0							℃/W
Typical junction capacitance (NOTE2)	C_J	20.0							PF
Operating junction and Storage temperature range	T_J, T_{Stg}	-65to+175							℃

NOTES:
(1) Thermal resistance from junction to AMBIENT AT 0.375"(9.5MM) lead length,P.C.B. Mounted
(2) Measured at 1MHZ and applied reverse voltage of 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVES

FIG.1 - TYPICAL FORWARD CORRENT DERATING CURVE

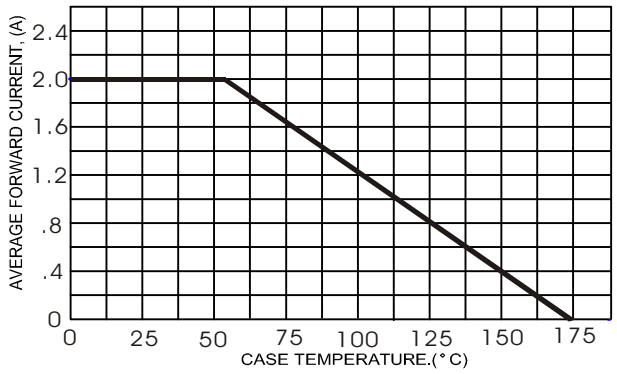


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

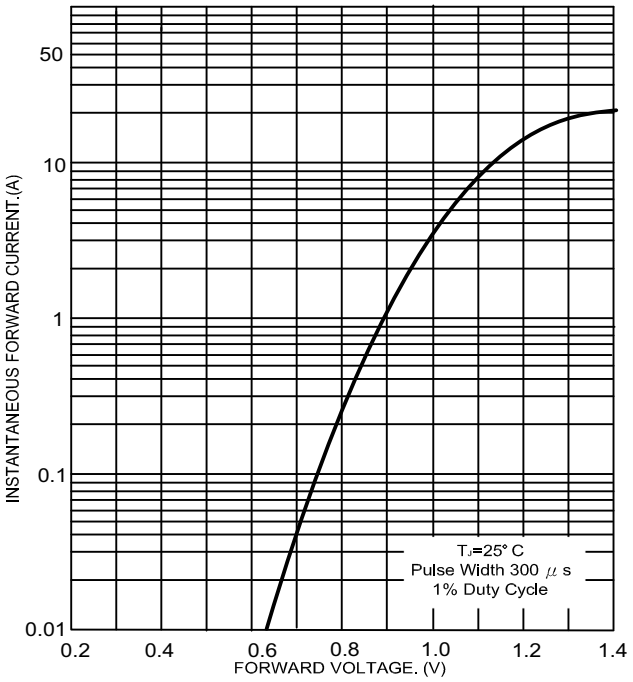


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

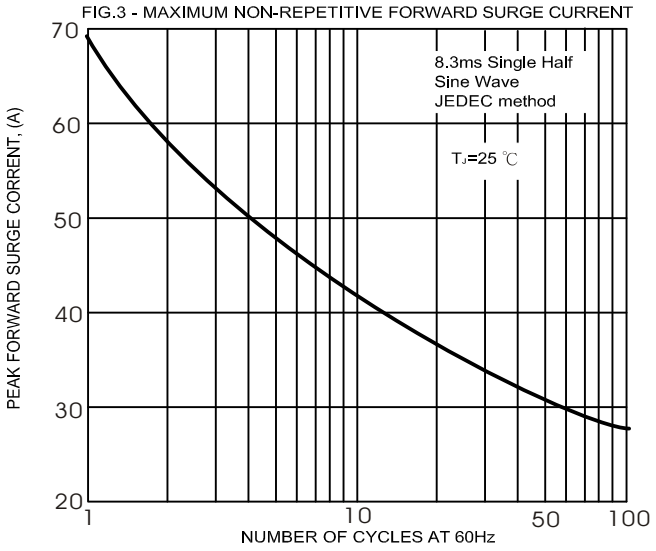


FIG.5- TYPICAL REVERSE CHARACTERISTICS

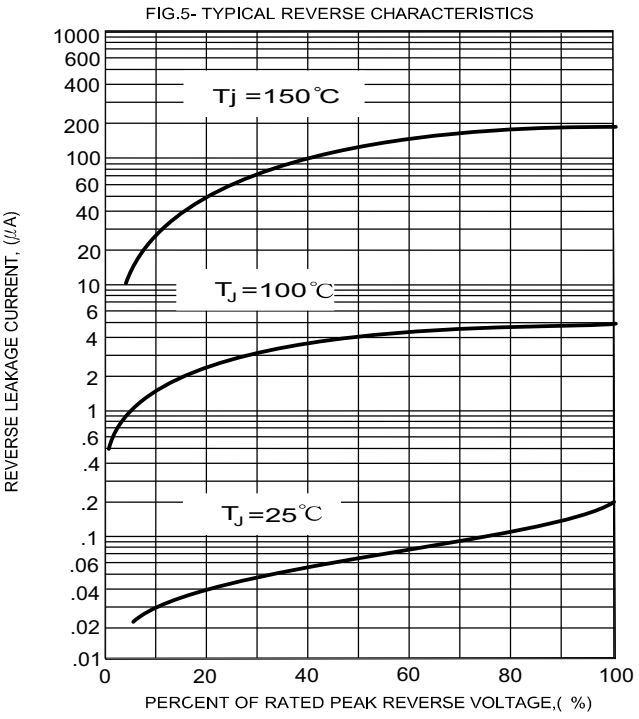
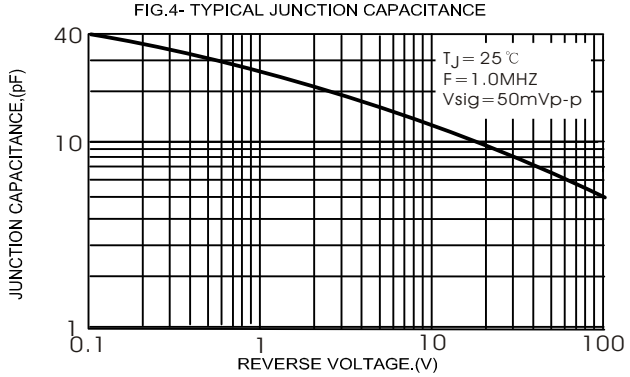


FIG.4- TYPICAL JUNCTION CAPACITANCE



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