DACO SEMICONDUCTOR CO., LTD.

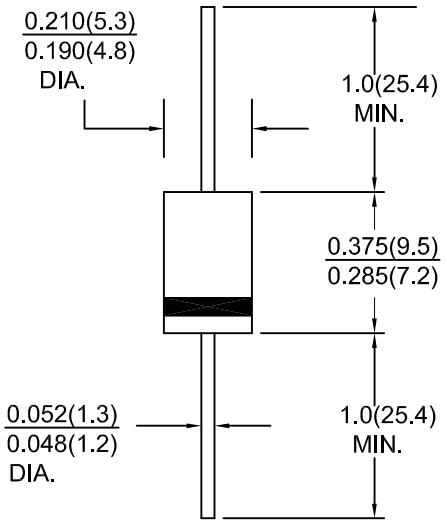
1N5400G THRU 1N5408G

GLASS PASSIVATED RECTIFIERS

DO-201AD

FEATURES:

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Glass passivated junction



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy
Terminals : Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
Polarity : Color band on body denotes cathode end
Mounting Position : Any
Weight : 1.1 grams,

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Characteristic	Symbol	1N 5400G	1N 5401G	1N 5402G	1N 5404G	1N 5406G	1N 5407G	1N 5408G	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 .375" lead length at Ta=75° C	I_O	3.0							Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I_{FSM}	200							Amps
Maximum instantaneous forward voltage drop at 3.0 A	V_F	1.1		1.0					Volts
Maximum DC reverse current Ta=25° C at rated DC blocking voltage Ta=150° C	I_R	5.0 100.0							μ A
Typical thermal resistance (Note 2)	R_{th-JA}	30							° C/W
Typical junction capacitance (Note 1)	C_j	40							pF
Operating junction and storage temperature range	T_j, T_{stg}	-65 to +150							° C

NOTES:1. Measured at 1MHz and Applied reverse voltage of 4.0V DC
2. Thermal Resistance from junction to ambient .375"(9.5mm) lead length.

RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CHARACTERISTICS

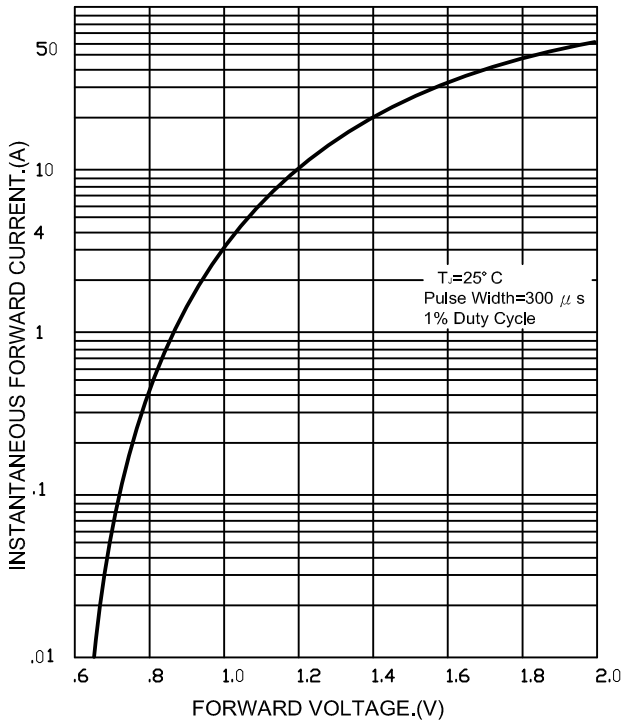


FIG.2 - TYPICAL FORWARD CURRENT DERATING CURVE

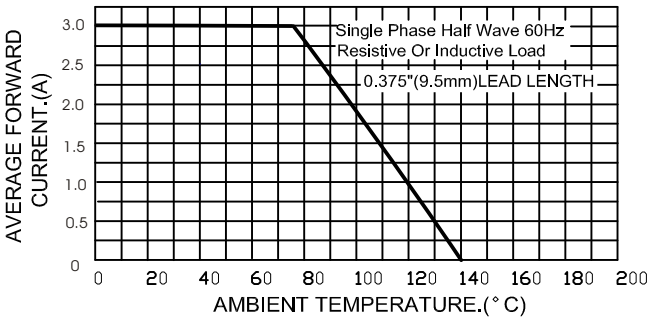


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

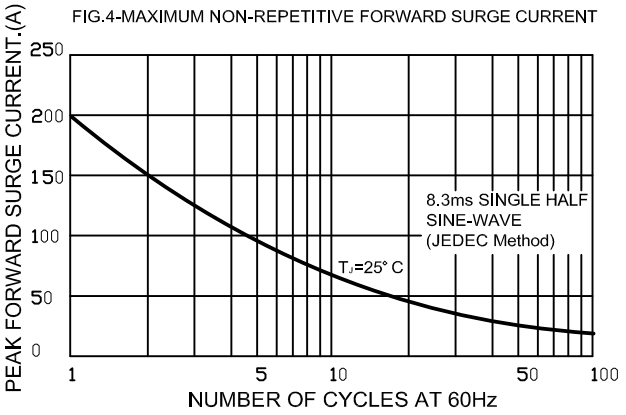


FIG.3-TYPICAL REVERSE CHARACTERISTICS

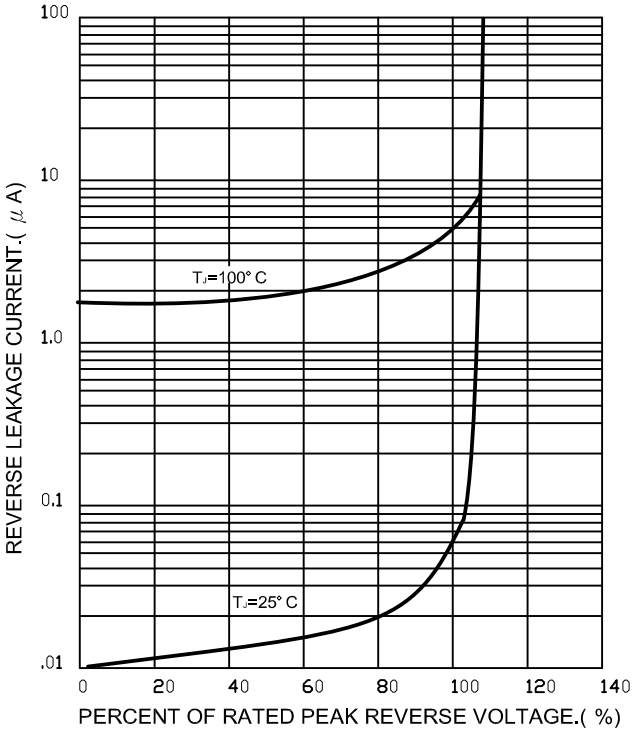
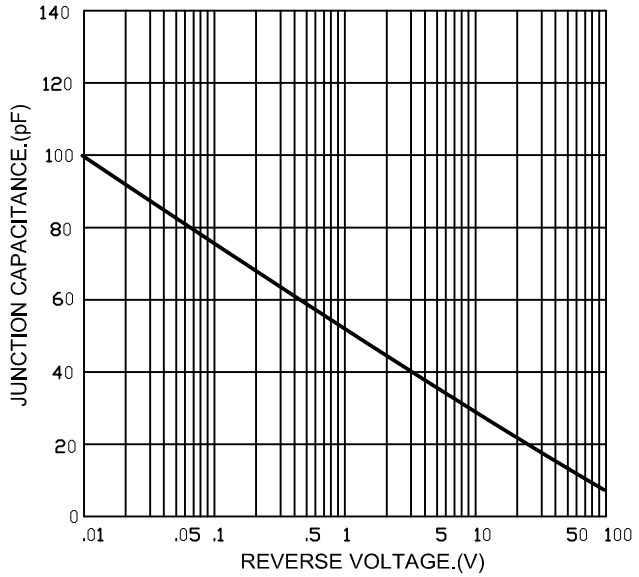


FIG.5-TYPICAL JUNCTION CAPACITANCE



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