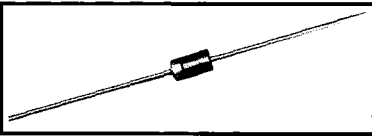


**1 AMP. GLASS PASSIVATED JUNCTION
PLASTIC SILICON RECTIFIERS**



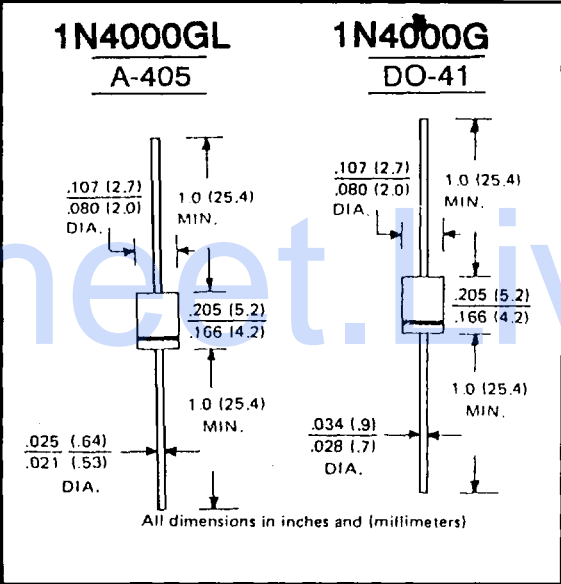
VOLTAGE RANGE
50 to 1000 Volts
CURRENT
1.0 Ampere

FEATURES

- Glass passivated chip
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with Freon, Alcohol, Chlorothene and similar solvents
- The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

Case: Molded Plastic
 Terminals: Plated axial leads, solderable per MIL-STD-202, Method 208
 Polarity: Color band denotes cathode
 Weight: 0.012 ounce, 0.3 grams
 Mounting position: Any



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, derate current by 20%.

		1N4001GL	1N4002GL	1N4003GL	1N4004GL	1N4005GL	1N4006GL	1N4007GL	UNITS
		1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375" (9.5mm) Lead Lengths @ $T_A = 75^\circ C$	$I_{(AV)}$	1.0							A
Peak Forward Surge Current 8.3 ms single half-sine-wave superimposed on rated load	I_{FSM}	30							A
Maximum Forward Voltage at 1.0A DC	V_F	1.0							V
Maximum DC Reverse Current @ $T_A = 25^\circ C$ at Rated DC Blocking Voltage @ $T_A = 125^\circ C$	I_R	5 50							μA μA
Typical Junction Capacitance (Note 1)	C_J	8							μF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	45							$^\circ C/W$
Maximum Reverse Recovery Time (Note 3)	T_{RR}	2							μS
Operating and Storage Temperature Range	T_{STG}	-65 to +175							$^\circ C$

NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC
 2. Thermal Resistance Junction to Ambient.
 3. Reverse Recovery Test Conditions: $I_F = 0.5A$, $I_R = 1A$, $I_{rr} = 0.25A$.

FIG. 1 - TYPICAL FORWARD CHARACTERISTIC

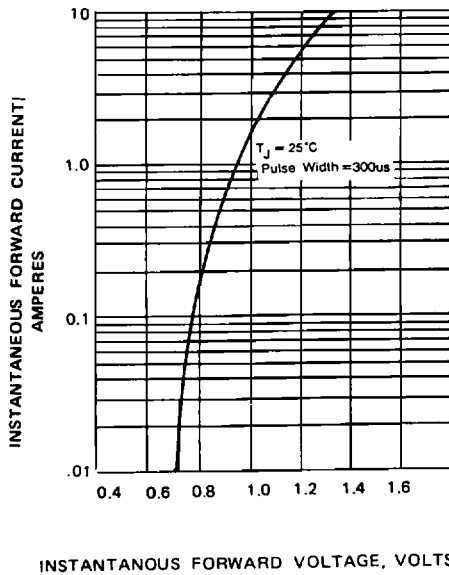


FIG. 2 - FORWARD DERATING CURVE

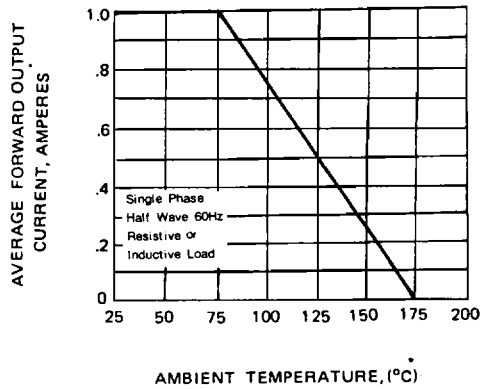


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

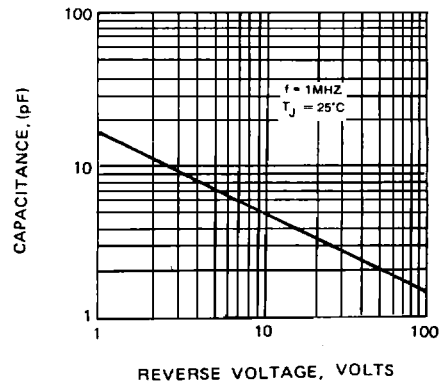


FIG. 3 - PEAK FORWARD SURGE CURRENT

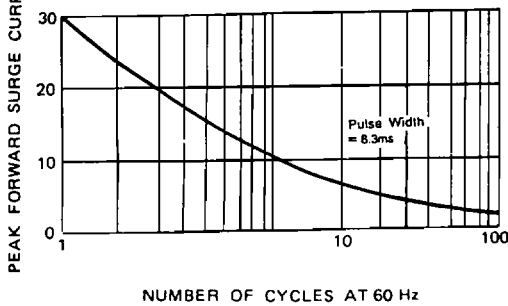


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

