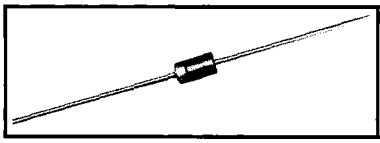
1 AMP. GLASS PASSIVATED JUNCTION PLASTIC SILICON RECTIFIERS



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-O

MECHANICAL DATA

Case: Molded Plastic

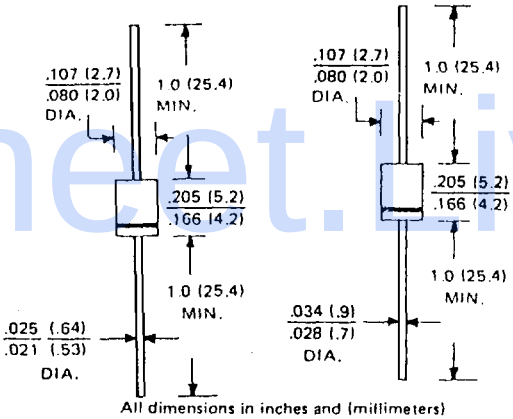
Terminals: Plated axial leads, solderable per MIL-STD-202, Method 208

Polarity: Color band denotes cathode

Weight: 0.012 ounce, 0.3 grams

Mounting position: Any

1N4000GL A-405 **1N4000G** DO-41



All 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, derate current by 20%.

		1N4001GL 1N4001G	1N4002GL 1N4002G	1N4003GL 1N4003G	1N4004GL 1N4004G	1N4005GL 1N4005G	1N4006GL 1N4006G	1N4007GL 1N4007G	UNITS
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 Length @ T_A = 75°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°C at Rated DC Blocking Voltage@TA = 125°C	I_R	5 50							uA uA
Typical Junction Capacitance (Note 1)	C_J	8							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	45							°C/W
Maximum Reverse Recovery Time (Note 3)	T_{RR}	2							μS
Operating and Storage Temperature Range	T_{STG}	−65 to + 175							°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

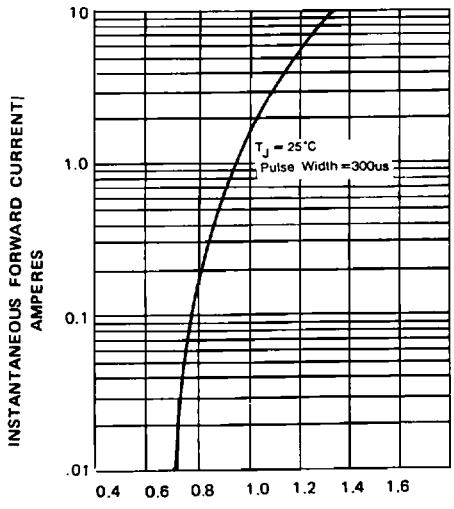


FIG. 2 – FORWARD DERATING CURVE

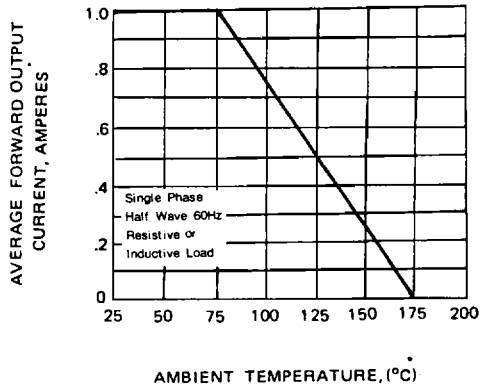


FIG. 4 – TYPICAL JUNCTION CAPACITANCE

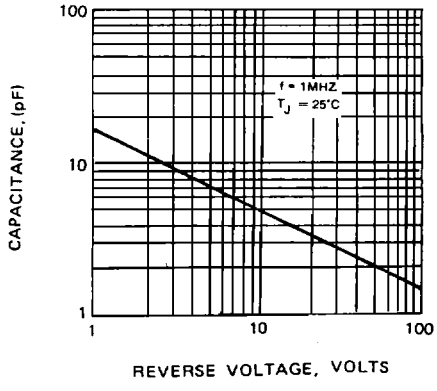


FIG. 3 – PEAK FORWARD SURGE CURRENT

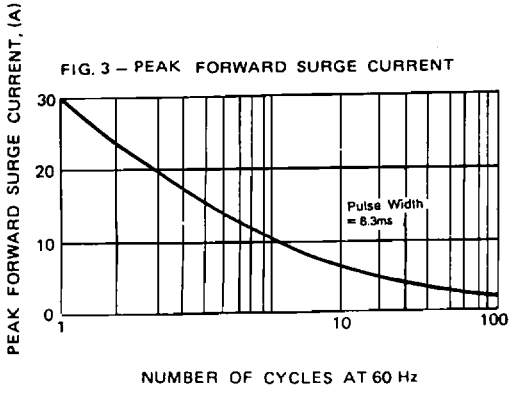


FIG. 5 – TYPICAL REVERSE CHARACTERISTICS