Elektronische Bauelemente

1N4001G ~ 1N4007G

Voltage 50V ~ 1000 V

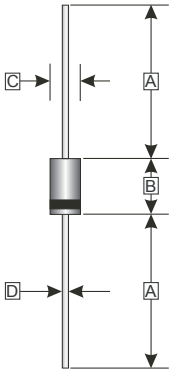
1.0 Amp Glass Passivated Rectifiers

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Low reverse current
- High surge current capability
- High current capability
- Component in accordance to RoHS 2002/95/EC

DO-41



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	4.10	5.21
C	2.00	2.72
D	0.70	0.90

MECHANICAL DATA

- Case: DO-41
- Case Material: Molded plastic,
  UL Flammability classification rating 94V-0
- Terminals: Lead free plating (Tin Finish)
  Soderable per MIL-STD-202, Method 208
- Polarity: Cathode band
- Weight: 0.318 grams(approximate)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Part Number							Unit
			1N 4001G	1N 4002G	1N 4003G	1N 4004G	1N 4005G	1N 4006G	1N 4007G	
Maximum Repetitive 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		I_F	1.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load		I_{FSM}	30							A
Maximum Instantaneous Forward Voltage @ I_F =1A		V_F	1.10							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_A = 25°C	I_R	5.0							μA
	T_A = 100°C		50							
Typical Junction Capacitance[1]		C_J	15				10			pF
Typical Thermal Resistance		$R_{\theta JA}$	100							°C/W
Operating, Storage temperature		T_J, T_{STG}	-55~125, -55~150							°C

Notes:
1. Measured at 1MHz and Applied Reverse Voltage of 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

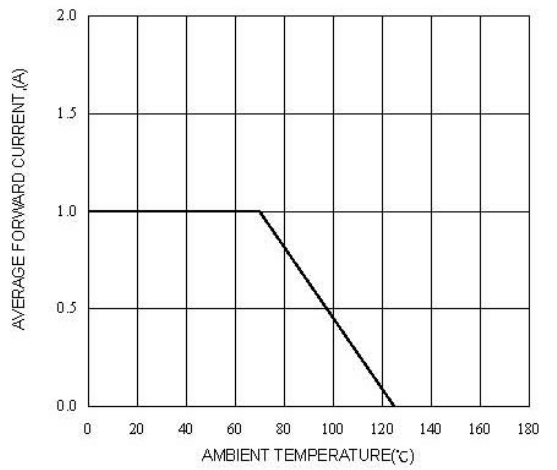


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

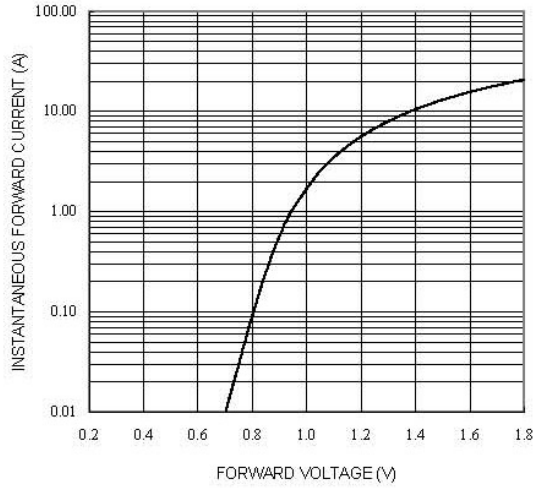


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

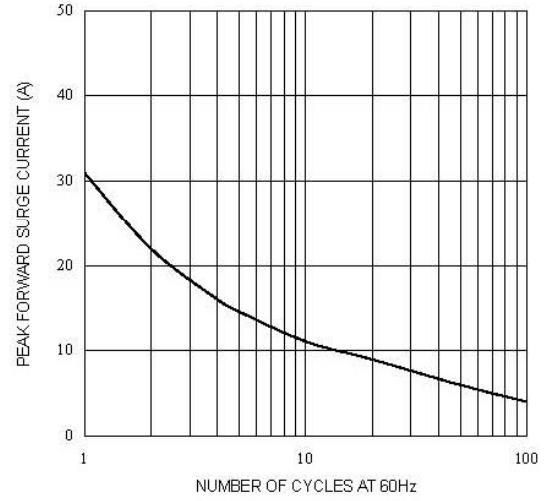


FIG. 5-TYPICAL REVERSE CHARACTERISTICS

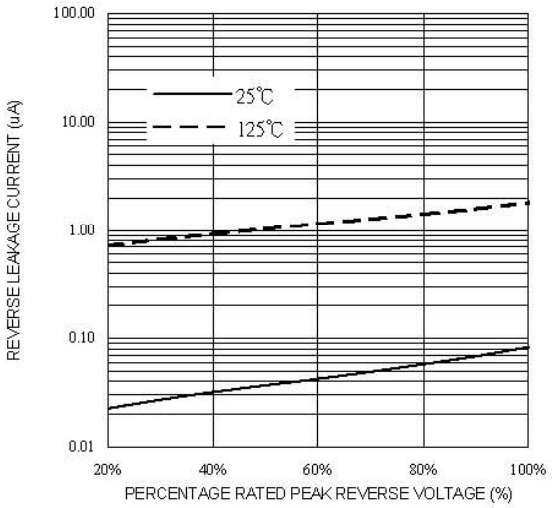


FIG. 4-TYPICAL JUNCTION CAPACITANCE