

A suffix of "-C" indicates halogen-free & RoHS Compliant



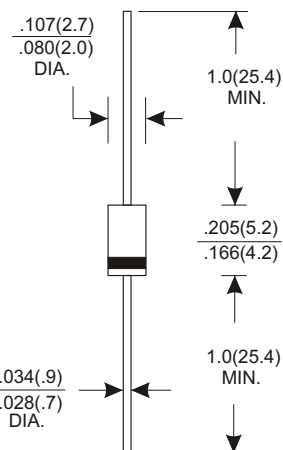
DO-41

●FEATURES

- RoHS Compliant Product
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

●MECHANICAL DATA

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Lead: Axial Lead, Solder Able per MIL-STD-202, Method 208 Guaranteed
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any
- Weight: 0.34 grams



Dimensions in inches and (millimeters)

●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, derate current by 20%.

TYPE NUMBER	1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current, .375" (9.5mm) Lead Length at Ta=75 °C	1.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method)	30							A
Maximum Instantaneous Forward Voltage at 1.0A	1.0							V
Maximum DC Reverse Current Ta = 25 °C	5.0							μA
at Rated DC Blocking Voltage Ta = 100 °C	50							
Typical Junction Capacitance (Note1)	15							pF
Typical Thermal Resistance RθJA (Note 2)	50							°C / W
Operating and Storage Temperature Range T _J , T _{STG}	-65 ~ +175							°C

NOTES:

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

2. Thermal Resistance from Junction to Ambient .375" (9.5mm) Lead Length.

● **RATING AND CHARACTERISTIC CURVES (1N4001G THRU 1N4007G)**

FIG.1-TYPICAL FORWARD CHARACTERISTICS

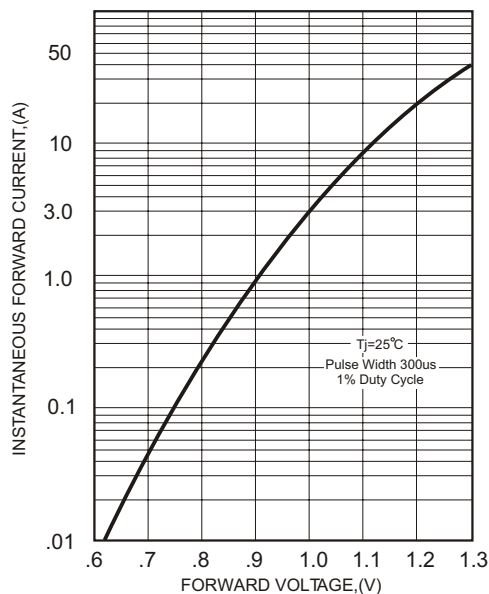


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

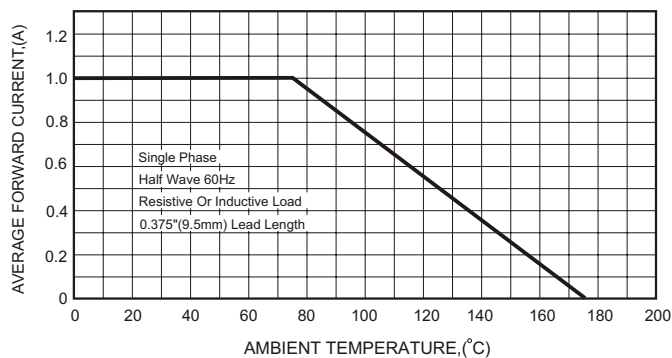


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

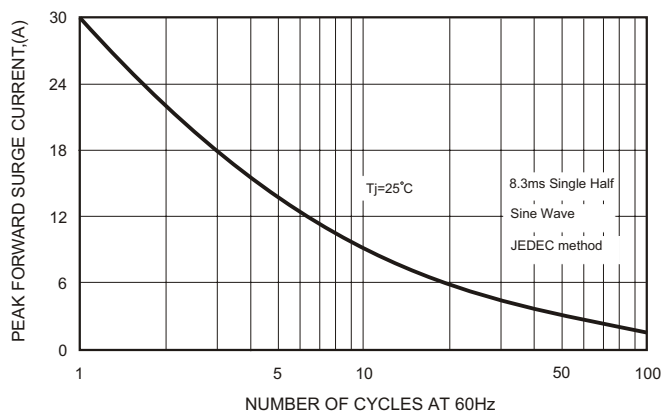


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

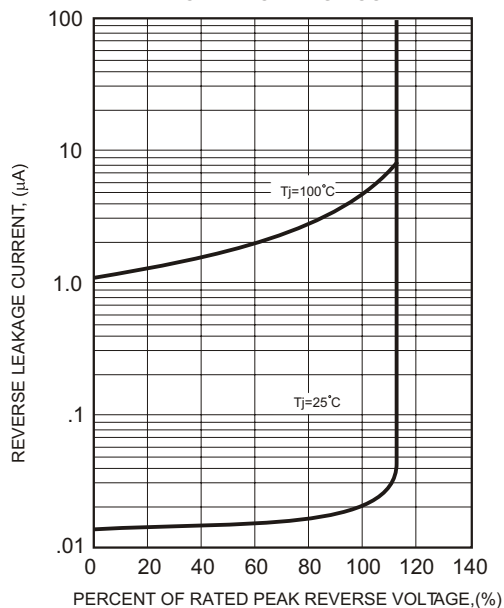


FIG.5-TYPICAL JUNCTION CAPACITANCE

