

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

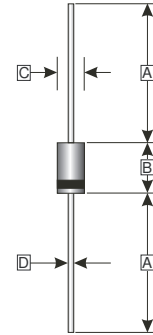
FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

PACKAGING INFORMATION

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.34 grams

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

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%.

TYPE NUMBER	1N 4001	1N 4002	1N 4003	1N 4004	1N 4005	1N 4006	1N 4007	UNITS
Max. Repetitive Peak Reverse voltage	50	100	200	400	600	800	1000	V
Max. RMS Voltage	35	70	140	280	420	560	700	V
Max. DC Blocking Voltage	50	100	200	400	600	800	1000	V
Max. Average Forward Rectified Current 0.375" (9.5 mm) Lead Length at T _A = 75°C	1.0							A
Peak Forward Sure Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	30							A
Max. Instantaneous Forward Voltage at 1.0A	1.0							V
Max. DC Reverse Current T _A = 25°C	5.0							μA
At Rated DC Blocking Voltage T _A = 100°C	50							μA
Typical Junction Capacitance (Note 1)	15							pF
Typical Thermal Resistance R _{θJA} (Note 2)	50							°C/W
Storage temperature	-65 ~ +150							°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.

RATINGS AND CHARACTERISTIC CURVES (1N4001 THRU 1N4007)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

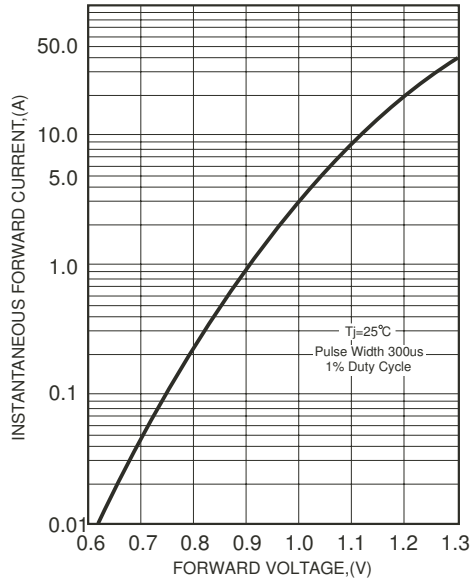


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

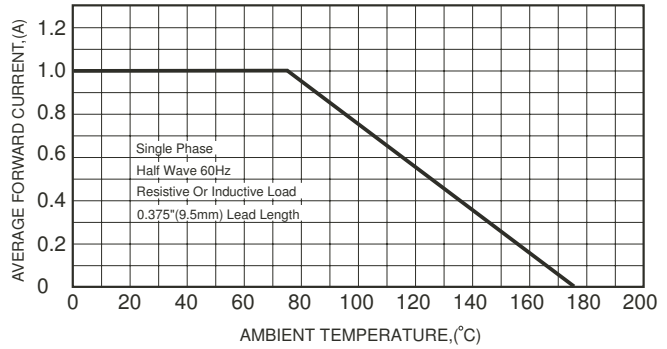


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

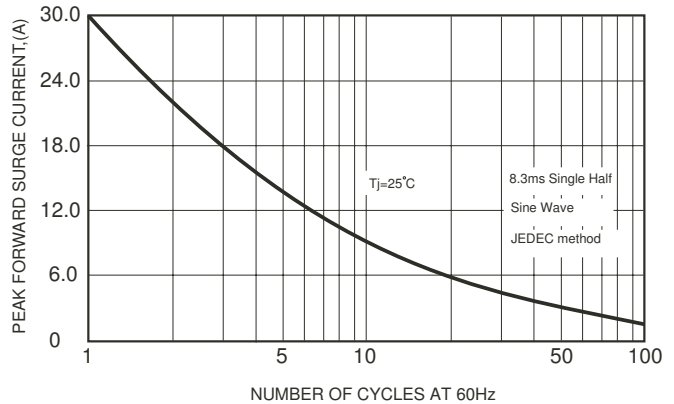


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

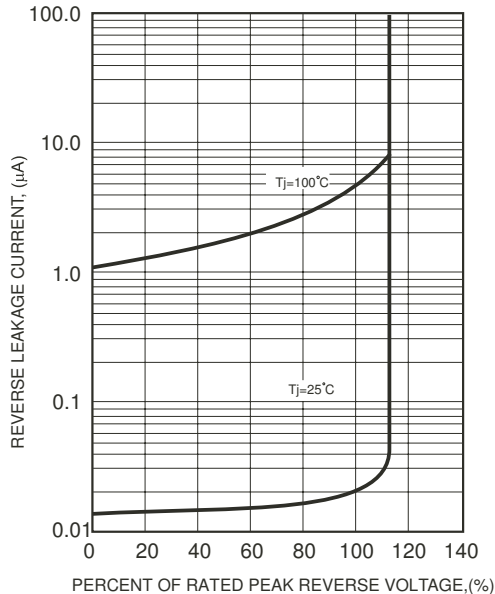


FIG.5-TYPICAL JUNCTION CAPACITANCE

