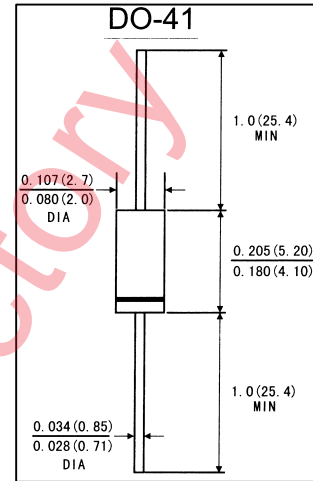


FEATURES

- . The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- . High current capability
- . Low reverse leakage
- . Glass passivated junction
- . Low forward voltage drop
- . High temperature soldering guaranteed: 250°C/10 seconds, 0.375"(9.5mm)lead length,5lbs.(2.3kg) tension



Dimensions in inches and (millimeters)

MECHANICAL DATA

- . **Case:** JEDEC DO-41 molded plastic body
- . **Terminals:** Plated axial lead solderable per MIL-STD-750,method 2026
- . **Polarity:**Color band denotes cathode end
- . **Mounting Position:** Any
- . **Weight:** 0.012 ounce, 0.33 gram

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 by 20%)

	Symbols	1N 4001G	1N 4002G	1N 4003G	1N 4004G	1N 4005G	1N 4006G	1N 4007G	Units
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Macimum average forward rectified current 0.375"(9.5mm)lead length at $T_A=75^\circ C$	$I_{(AV)}$	1.0							Amp
Peak forward surge current 8.3ms half sing-wave superimposed on rated load (JEDEC method)	I_{FSM}	30.0							Amps
Maximum instantaneous forward voltage at 1.0 A	V_F	1.1							Volts
Maximum reverse current at rated DC blocking voltage	$T_A=25^\circ C$	I_R							μA
	$T_A=100^\circ C$	50.0							
Typeical thermal resistance(Note 1)	$R\theta_{JA}$	50.0							$^\circ C/W$
	$R\theta_{JL}$	25.0							
Typical junction Capacitance(Note 2)	C_J	15.0							pF
Operating and storage temperature range	T_J	-65 to +175							$^\circ C$
	T_{STG}								

- Notes:** 1. Measured at 1MHz and applied reverse voltage of 4.0V DC
 2. Thermal resistance from junction to ambient and from junction lead at 0.375"(9.5mm)lead length, P.C.B. Mounted

RATINGS AND CHARACTERISTIC CURVES 1N4001G THRU 1N4007G

FIG.1-FORWARD CURRENT DERATING CURVE

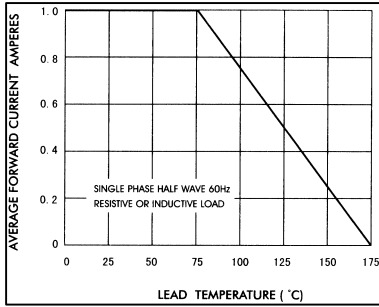


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

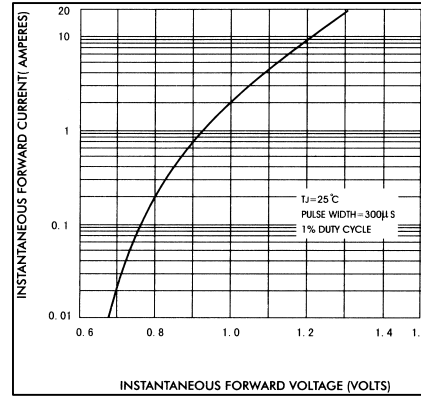


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

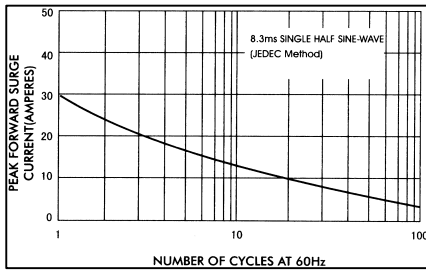


FIG.4-TYPICAL REVERSE CHARACTERISTICS

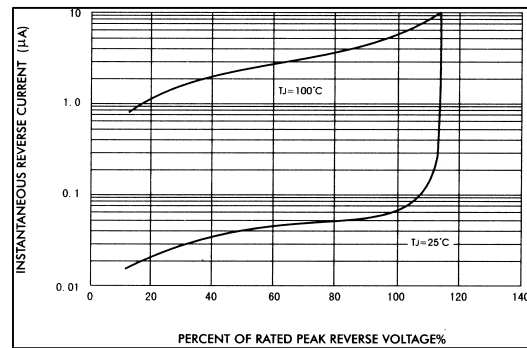


FIG.5-TYPICAL JUNCTION CAPACITANCE

