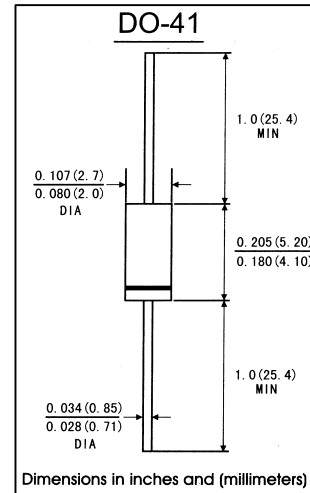


FEATURES

- . The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- . Construction utilizes void-free molded plastic technique
- . Low reverse leakage
- . High forward surge current capability
- . High temperature soldering guaranteed: 250°C/10 seconds, 0.375"(9.5mm)lead length,5lbs.(2.3kg).

MECHANICAL DATA

- . **Case:** JEDEC DO-41 molded plastic body
- . **Terminals:** 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	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	Units
Maximum reurrent 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
Maximum average forward rectified current 0.375"(9.5mm)lead length at T _A =75℃		I _(AV)	1.0							Amp
Peak forward surge current 8.3ms half sing-wave superimposed on rated load (JEDEC method)T _A =75℃		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℃	I _R	5.0							μ A
	T _A =100℃		50.0							
Typeical thermal resistance(Note 2)		Rθ _{JA}	50.0							℃/W
		Rθ _{JL}	25.0							
Typical junction Capacitance(Note 1)		C _J	15.0							pF
Maximum DC Blocking Voltage temperature		T _A	+150							℃
Operating and storage temperature range		T _J T _{STG}	-50 to +175							℃

Notes: 1. Measured at 1MHz and applied reverse voltage of 4.0V DC

2.Thermal resistance from juntion to ambient and from junction lead at 0.375"(9.5mm)lead length,
P.C.B. Mounted

RATINGS AND CHARACTERISTIC CURVES 1N4001 THRU 1N4007

FIG.1-FORWARD CURRENT DERATING CURVE

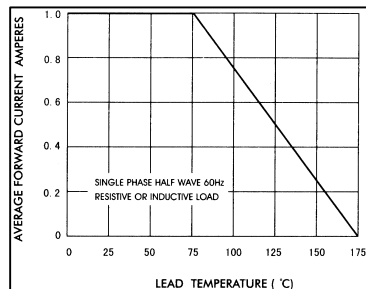


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

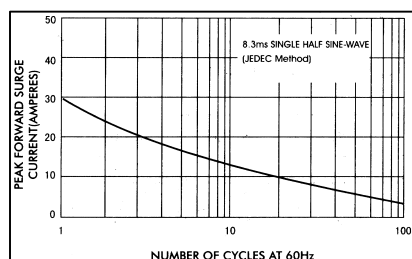


FIG.5-TYPICAL JUNCTION CAPACITANCE

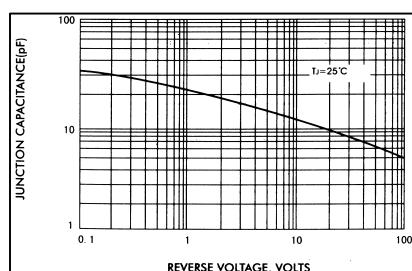


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

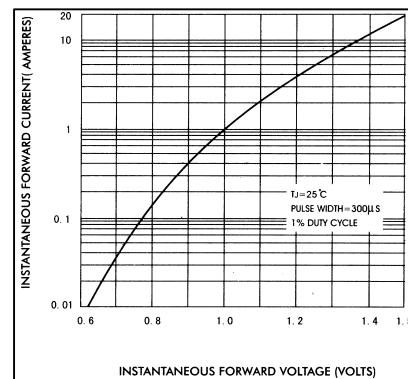
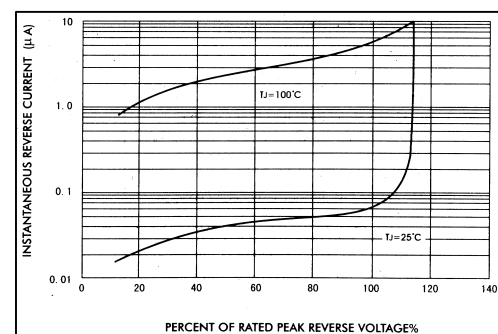


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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