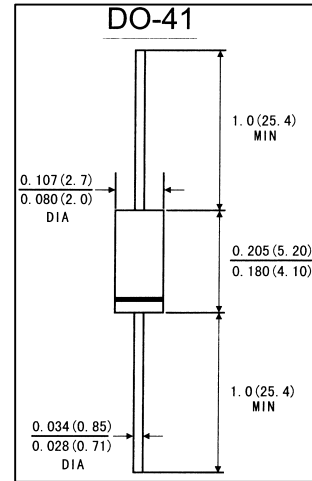


FEATURES

- . 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°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 | TA=25°C | 5.0 | | | | | | | μ A |
| | TA=100°C | 50.0 | | | | | | | |
| Typeical thermal resistance(Note 1) | R θ _{JA} | 50.0 | | | | | | | °C/W |
| | R θ _{JL} | 25.0 | | | | | | | |
| Typical junction Capacitance(Note 2) | C _J | 15.0 | | | | | | | pF |
| Operating and storage temperature range | T _J | -65 to +175 | | | | | | | °C |
| | T _{STG} | | | | | | | | |

- 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 1N4001G THRU 1N4007G

FIG.1-FORWARD CURRENT DERATING CURVE

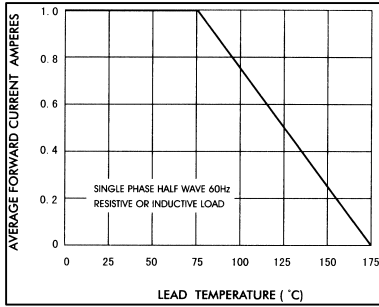


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

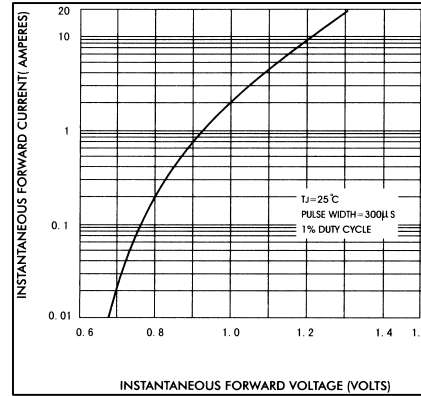


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

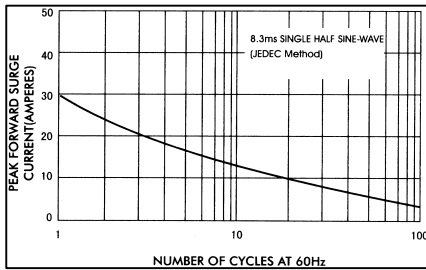


FIG.4-TYPICAL REVERSE CHARACTERISTICS

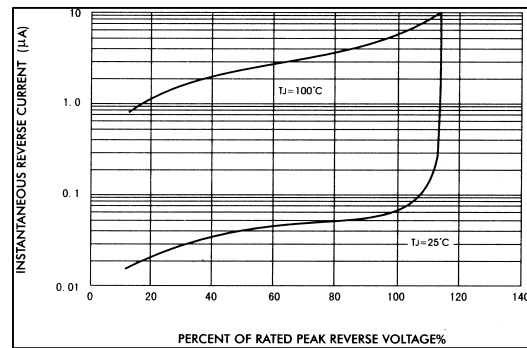


FIG.5-TYPICAL JUNCTION CAPACITANCE

