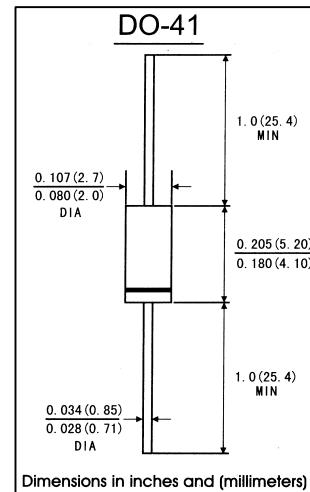


**FEATURES**

- . The plastic package carries Underwriters 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 <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375"(9.5mm)lead length at T <sub>A</sub> =75 °C	I <sub>(AV)</sub>					1.0			Amp
Peak forward surge current 8.3ms half sing-wave superimposed on rated load (JEDEC method)T <sub>A</sub> =75 °C	I <sub>FSM</sub>					30.0			Amps
Maximum instantaneous forward voltage at 1.0 A	V <sub>F</sub>				1.1				Volts
Maximum reverse current at rated DC blocking voltage	T <sub>A</sub> =25 °C T <sub>A</sub> =100 °C	I <sub>R</sub>			5.0				μA
Typeical thermal resistance(Note 2)					50.0				
Typical junction Capacitance(Note 1)	C <sub>J</sub>				15.0				pF
Maximum DC Blocking Voltage temperature	T <sub>A</sub>				+150				°C
Operating and storage temperature range	T <sub>J</sub> T <sub>TSG</sub>				-50 to +175				°C

**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

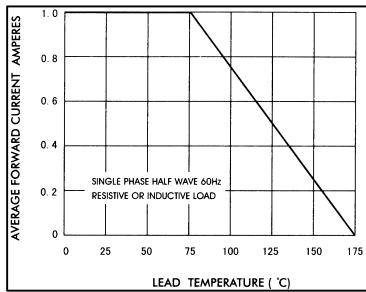
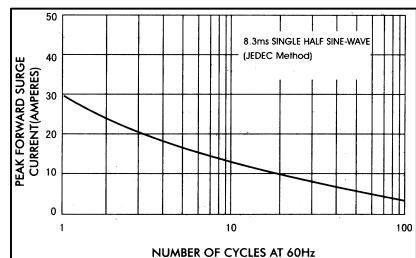
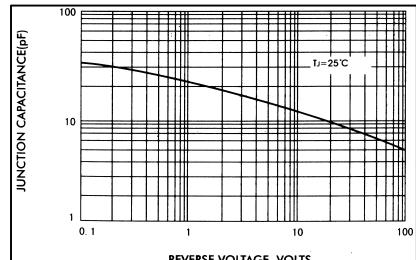
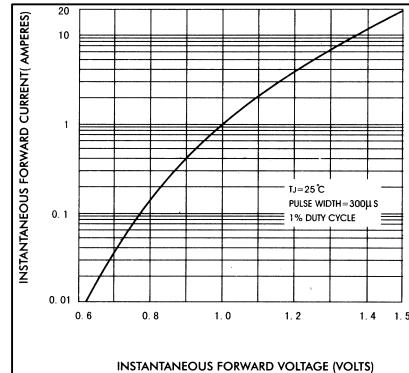
**CE**

CHENYI ELECTRONICS

**1N4001 THRU 1N4007****GENERAL PURPOSE PLASTIC RECTIFIER**

Reverse Voltage - 50 to 1000 Volts

Forward Current - 1.0Amperes

**RATINGS AND CHARACTERISTIC CURVES 1N4001 THRU 1N4007****FLG.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**