

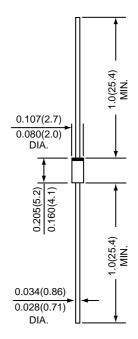
1N4001 THRU 1N4007

SILICON RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 1.0 Ampere

DO-204AL



*Dimensions in inches and (millimeters)

FEATURES

- * The plastic package carries Underwriters Laboratory
 Flammability Classification 94V-0
- * Construction utillizes void-free molded plastic technique
- * Low reverse leakage
- * High forward surge current capability
- * High temperature soldering guaranteed :
 260°C / 10 seconds, 0.375" (9.5mm) lead length,
 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-204AL Molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

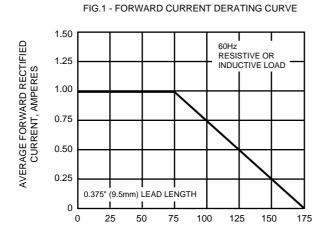
Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.012 ounce, 0.3 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature	SYMBOLS	1N4001	1N4002	1 N 4003	1 N 4004	1N4005	1N4006	1N4007	UNITS
unless otherwise specified.									
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at TL=75°C	I(AV)	1.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30							Amps
Maximum instantaneous forward voltage at 1.0 A	VF	1.1							Volts
Maximum full load reverse current, full cycle average 0.375" (9.5mm) lead length at TL=75°C	IR(AV)	30						uA	
Maximum DC reverse current $T_{A=25}^{\circ}C$ at rated DC blocking voltage $T_{A=100}^{\circ}C$	lR	5.0 50						uA	
Typical junction capacitance 4.0V, 1MHz	CJ	15						pF	
Typical thermal resistance	R θ JA R θ JL	50 25							°C/W
Operating junction and storage temperature range	TJ,TSTG	-65 to +175							°C

RATINGS AND CHARACTERISTIC CURVES 1N4001 THRU 1N4007



AMBIENT TEMPERATURE, °C

