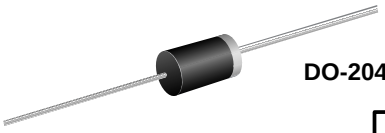
1N4001~1N4007

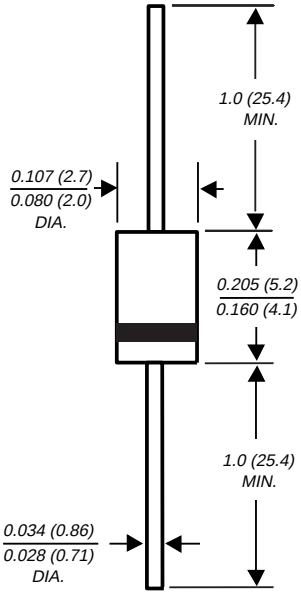
Silicon Rectifiers

General Purpose Plastic Rectifier

Reverse Voltage 50 to 1000 V
Forward Current 1.0 A



DO-204AL (DO-41)



NOTE: *Lead diameter is* 0.026 (0.66) / 0.023 (0.58) *for suffix "E" part numbers*

Dimensions in inches and (millimeters)

Features

- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge capability
- High temperature soldering guaranteed: 250°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 & Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	1N 4001	1N 4002	1N 4003	1N 4004	1N 4005	1N 4006	1N 4007	UNITS
*Maximum repetitive peak reverse voltage	V_{PRV}	50	100	200	400	600	800	1000	V
*Maximum average forward rectified current 0.375" (9.5mm) lead length at T_A=75°C	$I_{F(AV)}$				1.0				A
*Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method) T_A=75°C	I_{FSM}				50				A

Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	1N 4001	1N 4002	1N 4003	1N 4004	1N 4005	1N 4006	1N 4007	UNITS
*Maximum instantaneous forward voltage at 1.0A	V_F				1.0				V
*Maximum DC reverse current T_A= 25°C	I_R				5.0				μA

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