

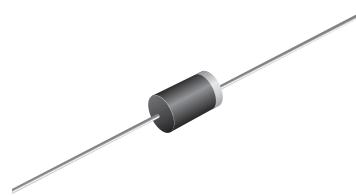
General Purpose Plastic Rectifier

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1N4001 thru 1N4007

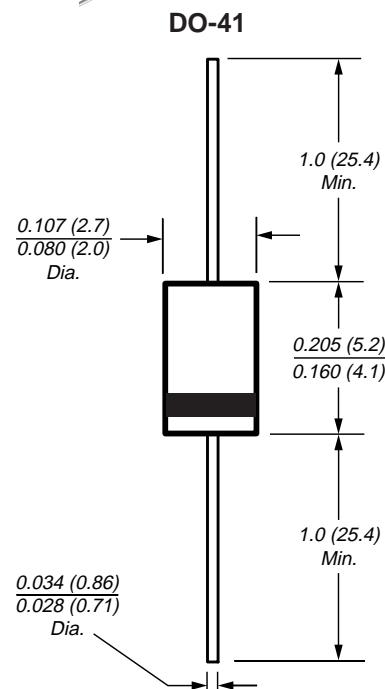
Reverse Voltage: 50 to 1000V

Forward Current: 1.0A



Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Low reverse leakage
- High forward surge capability
- High temperature soldering guaranteed: 350°C/10 Seconds, 0.375" (9.5mm) lead length
- Guardring for overvoltage protection



Dimensions in inches and (millimeters)

Maximum Ratings & Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symb.	1N 4001	1N 4002	1N 4003	1N 4004	1N 4005	1N 4006	1N 4007	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
* Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
* Maximum DC blocking voltage	V _{DC}	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 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) T _A = 75°C	I _{FSM}				30				A
* Maximum full load reverse current, full cycle average 0.375" (9.5mm) lead length T _L = 75°C	I _{R(AV)}			30					µA
Typical thermal resistance ⁽¹⁾	R _{θJA} R _{θJL}			50		25			°C/W
* Maximum DC blocking voltage temperature	T _A			+150					V
* Operating junction and storage temperature range	T _J , T _{STG}			-50 to +175					°C

Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Maximum instantaneous forward voltage at 1.0A	V _F	1.1		V
* Maximum DC reverse current at rated DC blocking voltage	T _A = 25°C T _A = 125°C	I _R	5.0 50	µA
Typical junction capacitance at 4.0V, 1MHz	C _J	15		pF

Note: (1) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted *JEDEC registered values

Schottky Barrier Rectifier

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Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

