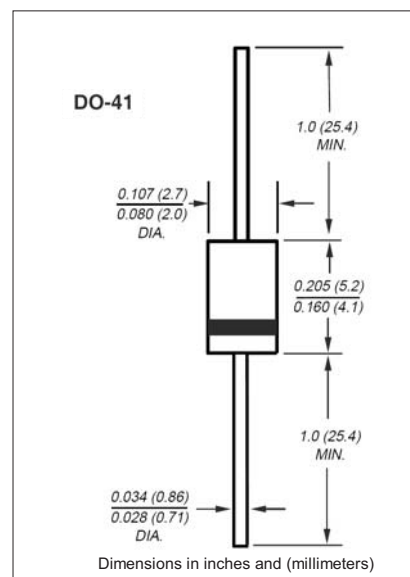


## General Purpose Plastic Rectifier

## 1N4001 thru 1N4007

## ■ Features

- Low reverse leakage
- High forward surge capability



## ■ Maximum Ratings &amp; Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	Unit
Peak Repetitive Reverse Voltage	VRRM								
Working Peak Reverse Voltage	VRMWM	50	100	200	400	600	800	1000	V
DC Blocking Voltage	VR								
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current	IO	1.0							A
Non-Repetitive Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	30							A
DC Blocking Voltage TA = 25°C TA = 100°C	IRM	5 50							μ A
Forward Voltage @ IF = 1.0A	VFM	1.1							V
Typical Junction Capacitance	CJ	15							pF
Typical Thermal Resistance Junction to Ambient	R θ JA	100							K/W
Maximum DC Blocking Voltage Temperature	TA	+150							°C
Operating and Storage Temperature Range	Tj, TSTG	-65 to 175							°C