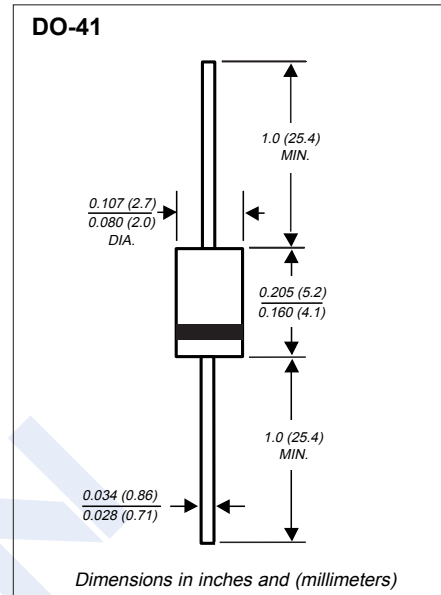


Rectifier Diodes

1N4001 ~ 1N4007

■ 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



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	1N 4001	1N 4002	1N 4003	1N 4004	1N 4005	1N 4006	1N 4007	Unit	
Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V	
RMS Voltage	V_{RMS}	35	70	140	280	420	560	700		
DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000		
Forward Voltage @ $I_F=1\text{A}$	V_F	1.1								A
Average Rectified Current	I_{AV}	1								
Peak Forward Surge Current @ 8.3ms	I_{FSM}	30								
Reverse Voltage Leakage Current $T_a = 25^\circ\text{C}$ $T_a = 75^\circ\text{C}$	I_R	5							uA	
		50								
Typical junction capacitance	C_J	15							pF	
Thermal Resistance Junction to Ambient (Note.1)	$R_{\theta JA}$	50							$^\circ\text{C}/\text{W}$	
Junction Temperature	T_J	150							$^\circ\text{C}$	
Storage Temperature range	T_{stg}	-55 to 150								

Note.1: Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Rectifier Diodes

1N4001 ~ 1N4007

■ Typical Characteristics

