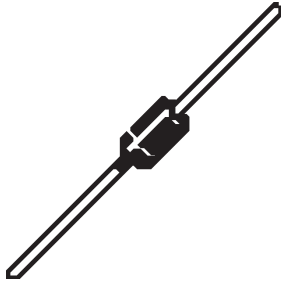
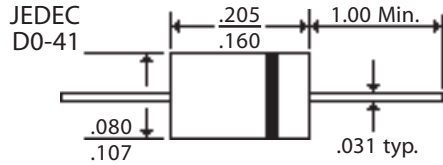


1N4001-1 ... 4007-1 Series

Description



Mechanical Dimensions



Features

- n LOW COST
- n LOW LEAKAGE

- n DIFFUSED JUNCTION
- n MEETS UL SPECIFICATION 94V-0

1N4001-1 ... 4007-1 Series								Units	
Maximum Ratings	1N4001-1	1N4002-1	1N4003-1	1N4004-1	1N4005-1	1N4006-1	1N4007-1		
Peak Repetitive Reverse Voltage... $V_{RRM}$	50	100	200	400	600	800	1000	Volts	
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	560	700	Volts	
DC Blocking Voltage... $V_{DC}$	50	100	200	400	600	800	1000	Volts	
Average Forward Rectified Current... $I_{F(av)}$ $T_A = 75^\circ\text{C}$ (Note 3)	.....			1.0	.....			Amps	
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$ /200US@ Rated Current & TEMPERATURE	.....			80A TYPE	.....			Amps	
Working Peak Reverse Current... $I_{R(AV)}$ @ Full Cycle .375" Lead Length, $T_L = 75^\circ\text{C}$	.....			30	.....			$\mu\text{Amps}$	
Operating & Storage Temperature Range... $T_J, T_{STRG}$	.....			-50 to 150	.....			$^\circ\text{C}$	
Electrical Characteristics									
Maximum Forward Voltage @ 1.0A... $V_f$	.....			1.1	.....			Volts	
Maximum DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage	25 $^\circ\text{C}$	.....			5.0	.....			$\mu\text{Amps}$
	100 $^\circ\text{C}$	.....			50	.....			$\mu\text{Amps}$
Typical Junction Capacitance... $C_j$ (Note 1)	.....			30	.....			pF	
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)	.....			50	.....			$^\circ\text{C} / \text{W}$	