

™

# Seismo-Quake

## LET IT SHAKE !

Educational

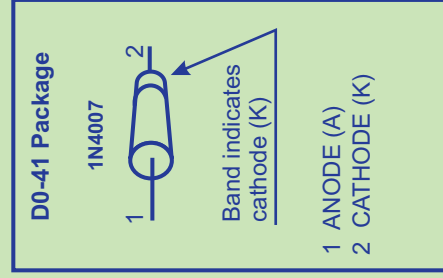
Technological

Innovative

Electronic

# 1N4007

Datasheet for the 1N4007 Diode



The 1N4007 is designed for a low forward voltage drop and to be able to withstand a high surge current. The 1N4007 is a 1 Ampere general purpose diode.

Parameter	Symbol	Min	Typ	Max	Unit
Average Rectified Current 9.53mm lead length @ $T_A = 75^\circ\text{C}$	$I_O$			1.0	A
Peak Forward Surge Current 8.3ms	$i_{f(\text{Surge})}$			30.0	A
Total Power Dissipation	$P_D$			2.5	Watt
Total Power Dissipation @ $T_A = 25^\circ\text{C} >$	$P_D$			20.0	mW/°C
Thermal Resistance, Junction to Ambient	$R_{\theta,JA}$			50.0	°C/W
Peak Repetitive Reverse Voltage 1N4007 @ $T_A = 25^\circ\text{C}$				1000	V
RMS Voltage 1N4007 @ $T_A = 25^\circ\text{C}$				700	V
DC Reverse Voltage 1N4007 @ $T_A = 25^\circ\text{C}$				1000	V
Reverse Current 1N4007 @ rated $V_R$ , $T_A = 25^\circ\text{C}$				5.0	$\mu\text{A}$
Forward Voltage 1N4007 @ 1.0A, $T_A = 25^\circ\text{C}$				1.1	V