/ Descriptions

50V~1000V 1.0A DO-41

General purpose silicon rectifier Reverse Voltage 50 to1000V Forward Current 1.0A DO-41 axial package.

/ Features

Plated axial lead, Low reverse leakage, High forward surge current capability.

/ Applications

General purpose.

/ Equivalent Circuit

/ Pinning



PIN1 Cathode PIN2:Anode

/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating							Unit
		1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G	
Maximum Recurrent 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)	I_{FSM}	30.0							A
Typical Junction Capacitance [1]	C_j	15.0							pF
Typical Thermal Resistance[2)]	$R_{\ JA}$	50.0							/W
Operating and Storage Temperature Range	T_j,T_{stg}	-55~+150							

Note:

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

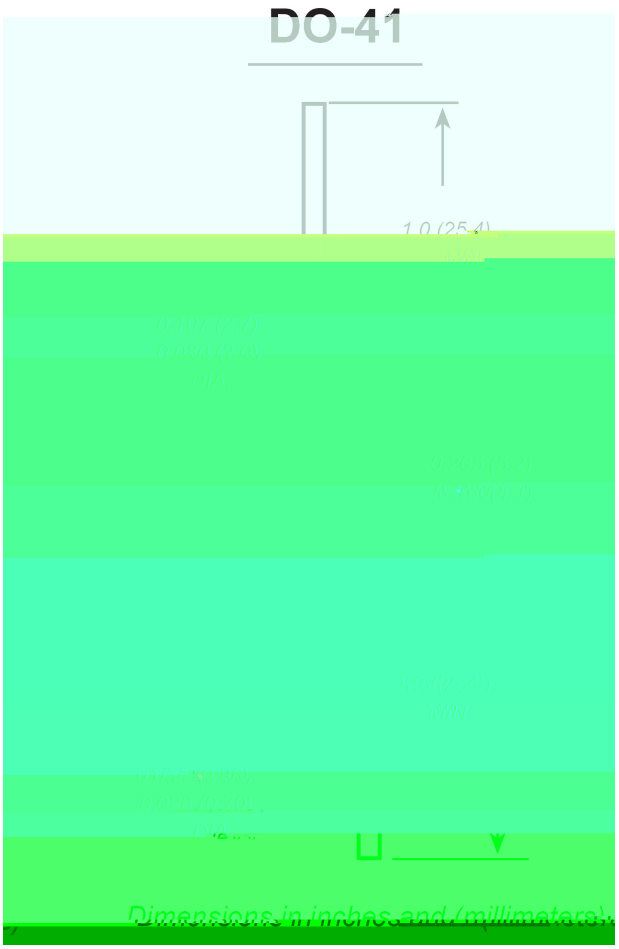
2) Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length,P.C.B. mounted.

/ Electrical Characteristics(Ta=25)

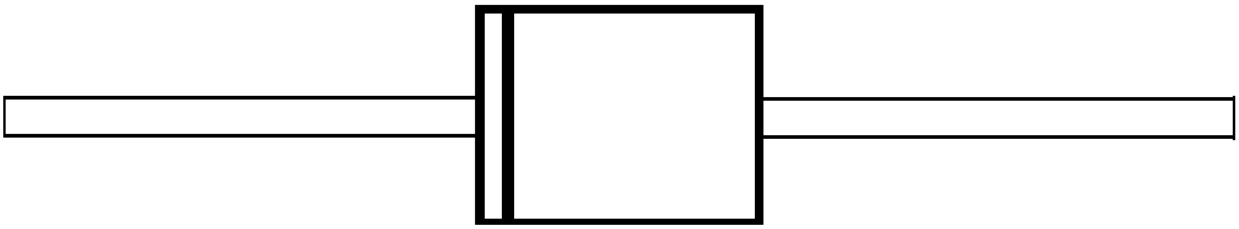
Parameter	Symbol	Test Conditions	Rating							Unit
			1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G	
Maximum Instantaneous Forward Voltage	V_F	I_F=1.0A	1.1							V
Maximum DC Reverse Current at Maximum DC Blocking Voltage	I_R	T_A=25	5.0							A
		T_A=125	50.0							A

1N4001G~1N4007G

/ Package Dimensions



/ Marking Instructions



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