

1N4001G~1N4007G

Rev.B Sep.-2025

/ 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.

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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 $T_A=75\text{ C}$ Peak forward surge current 8.3ms single half sine-wave superimposed	$I_{F\ AV}$	1.0							A

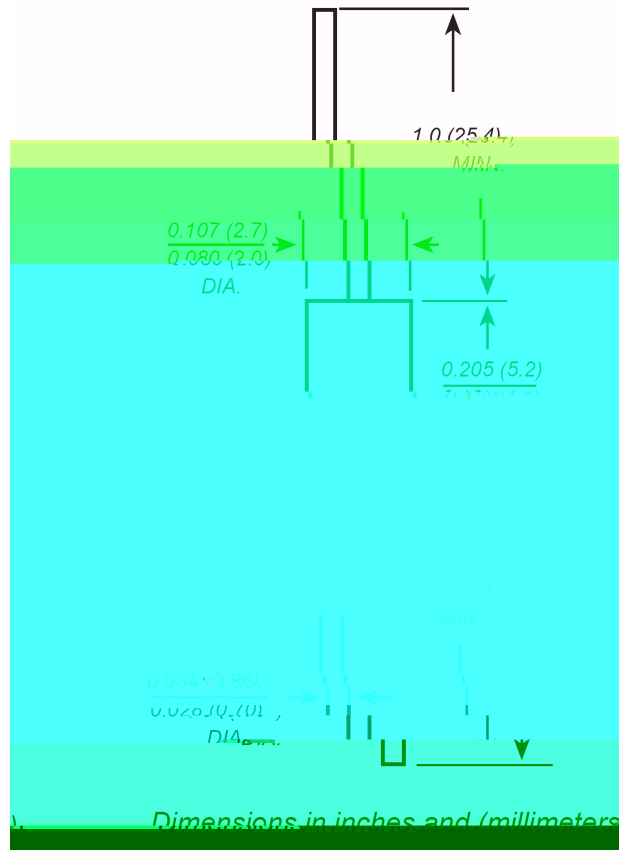
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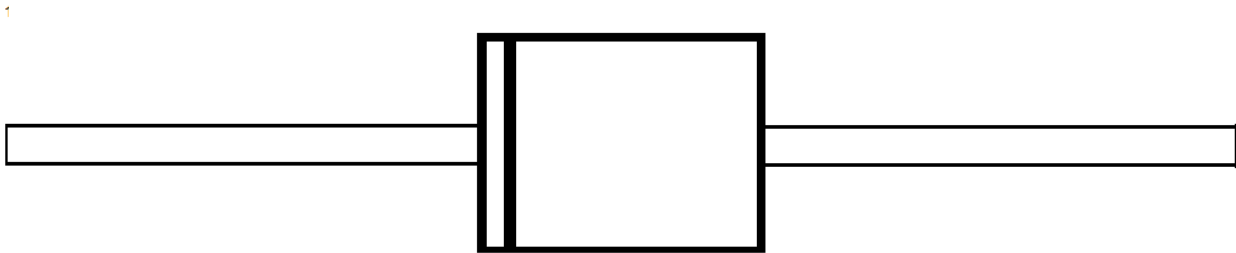
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/ Package Dimensions

DO-41



/ Marking Instructions



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() / Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

- | | | | |
|---|-----------|-------------|---|
| 1 | 150 ~ 180 | 60 ~ 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245±5 | 5±0.5sec; | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | 2 ~ 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

260±5	10±1 sec.	Temp.:260±5	Time:10±1 sec
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