

Rev.C May.-2026

50V~1000V 1.0A DO-41
 General purpose silicon rectifier Reverse Voltage 50 to1000V Forward Current 1.0A DO-41 axial package.

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

General purpose.



PIN1 Cathode PIN2:Anode

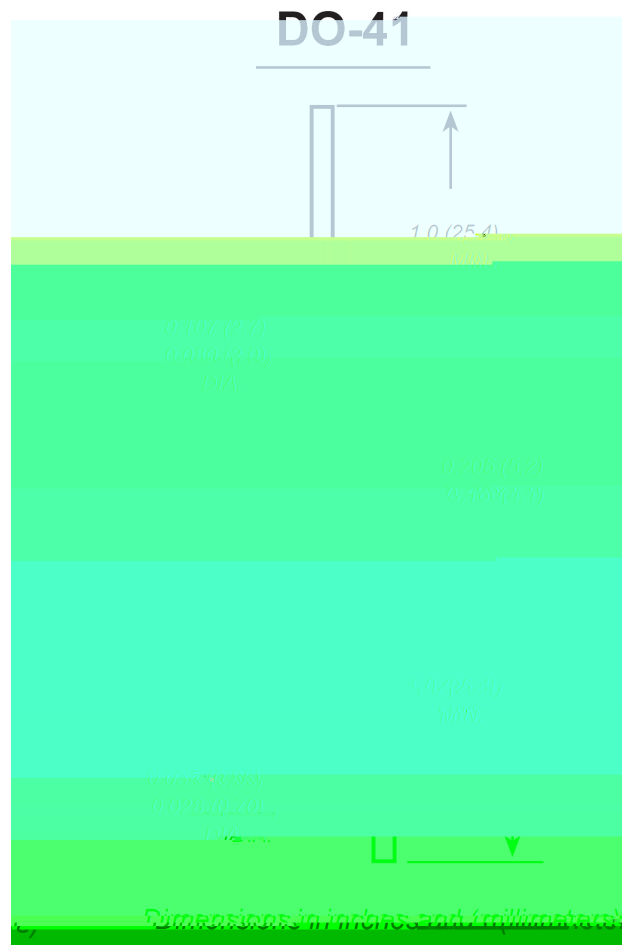
See Marking Instructions.

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 $T_A=75^\circ\text{C}$	$I_{F\text{ AV}}$	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⁾	$R_{\theta JA}$	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.

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



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