



1N4007G

General Purpose Rectifier

Voltage

1000 V

Current

1 A

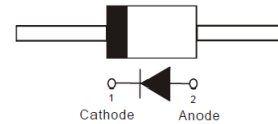
Features

- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : DO-41 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0119 ounces, 0.336 grams

DO-41



Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	1000	V
Maximum RMS Voltage	V _{RMS}	700	V
Maximum DC Blocking Voltage	V _{DC}	1000	V
Maximum Average Forward Current	I _{F(AV)}	1	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I _{FSM}	30	A
Typical Junction Capacitance Measured at 1 MHz And Applied V _R = 4 V	C _J	6	pF
Typical Thermal Resistance (Note 1)	R _{θJA}	80	°C/W
(Note 2)	R _{θJC}	23	
Operating Junction Temperature Range	T _J	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C



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Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	$I_F = 1\text{ A}, T_J = 25^\circ\text{C}$	-	-	1.1	V
		$I_F = 1\text{ A}, T_J = 125^\circ\text{C}$	-	0.84	-	
Reverse Current	I_R	$V_R = 1000\text{ V}, T_J = 25^\circ\text{C}$	-	-	1	uA
		$V_R = 1000\text{ V}, T_J = 125^\circ\text{C}$	-	-	100	

NOTES:

1. The testing condition of the thermal resistance (junction to ambient) is based on 10 mm lead length between mini copper pad
2. The testing condition of the thermal resistance (junction to case) is based on 10 mm lead length between two 10 cm x 10cm copper pad



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TYPICAL CHARACTERISTIC CURVES

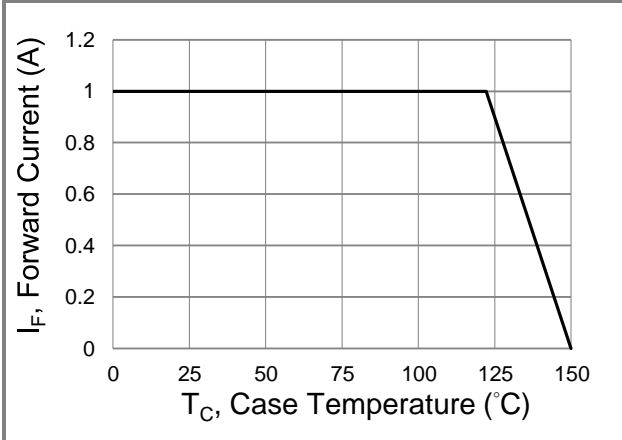


Fig.1 Forward Current Derating Curve

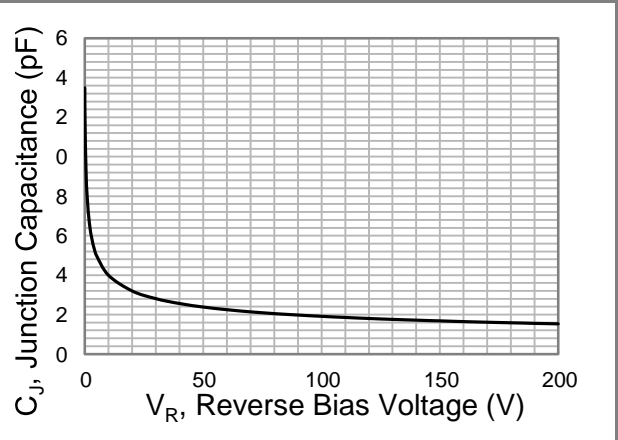


Fig.2 Typical Junction Capacitance

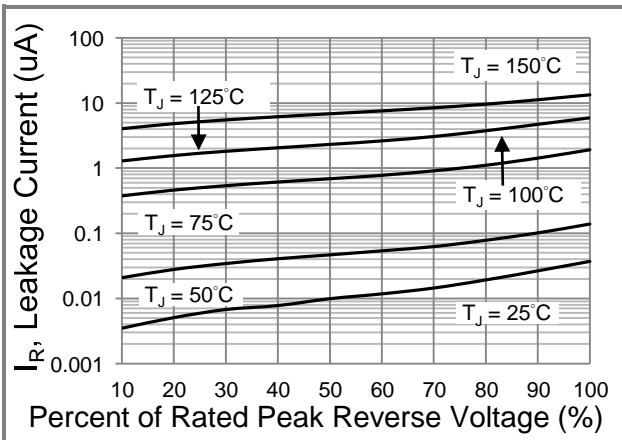


Fig.3 Typical Reverse Characteristics

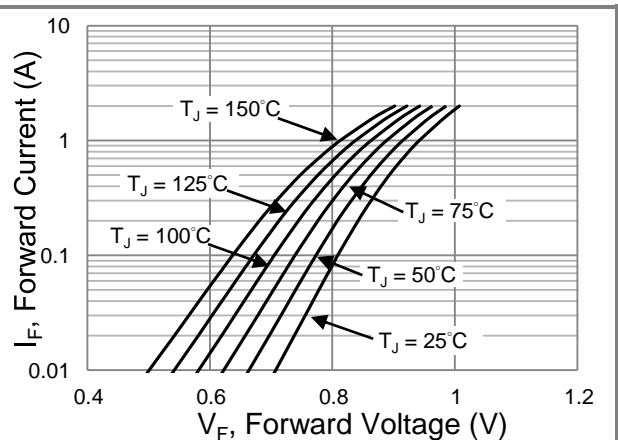


Fig.4 Typical Forward Characteristics

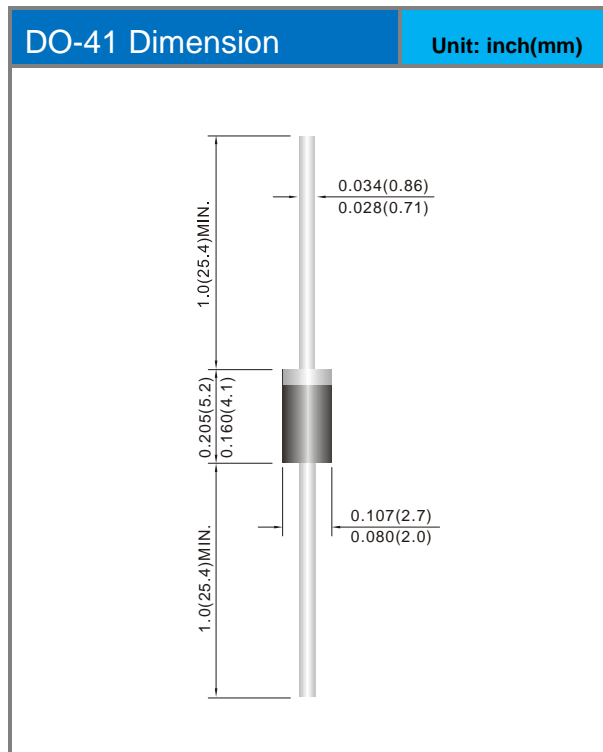


1N4007G

Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
1N4007G_AY_00101	DO-41	5K pcs / Ammo	1N4007G	Halogen free
1N4007G_B0_00101	DO-41	1K pcs / Box	1N4007G	Halogen free
1N4007G_R2_00101	DO-41	5K pcs / 13" reel	1N4007G	Halogen free

Packaging Information





1N4007G

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