

1N4007G

GLASS PASSIVATED JUNCTION PLASTIC RECTIFIERS

Voltage

1000 V

Current

1 A

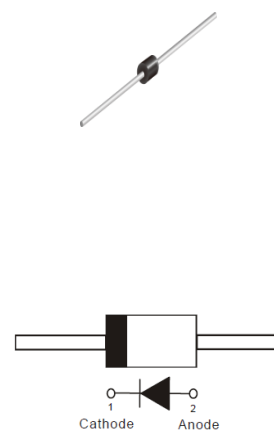
Features

- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current
- Plastic package has underwriters laboratory flammability classification 94V-O
- 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: 0.009 ounces, 0.27 grams

DO-41



Maximum Ratings and Thermal Characteristics ($T_A = 25^{\circ}\text{C}$ 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 $V_R = 4\text{ V}$	C_J	5	pF
Typical Thermal Resistance	$R_{\theta JA}^{(1)}$	80	$^{\circ}\text{C}/\text{W}$
	$R_{\theta JC}^{(2)}$	23	
Operating Junction Temperature Range	T_J	-55~150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55~150	$^{\circ}\text{C}$



1N4007G

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	$I_F = 0.5\text{ A}, T_J = 25^\circ\text{C}$	-	0.9	-	V
		$I_F = 1\text{ A}, T_J = 25^\circ\text{C}$	-	-	1.1	
		$I_F = 0.5\text{ A}, T_J = 125^\circ\text{C}$	-	0.78	-	
		$I_F = 1\text{ A}, T_J = 125^\circ\text{C}$	-	0.85	-	
Reverse Current	I_R	$V_R = 1000\text{ V}, T_J = 25^\circ\text{C}$	-	-	5	uA
		$V_R = 1000\text{ V}, T_J = 125^\circ\text{C}$	-	5	-	

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

1N4007G

TYPICAL CHARACTERISTIC CURVES

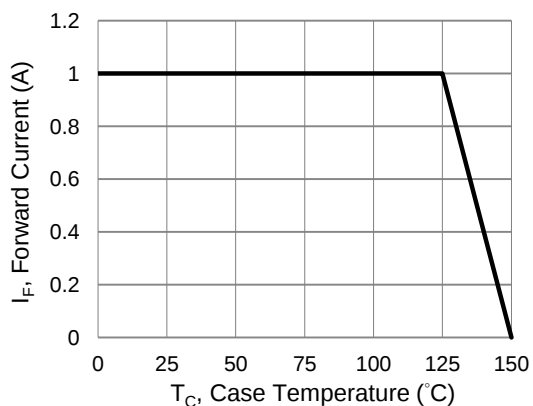


Fig.1 Forward Current Derating Curve

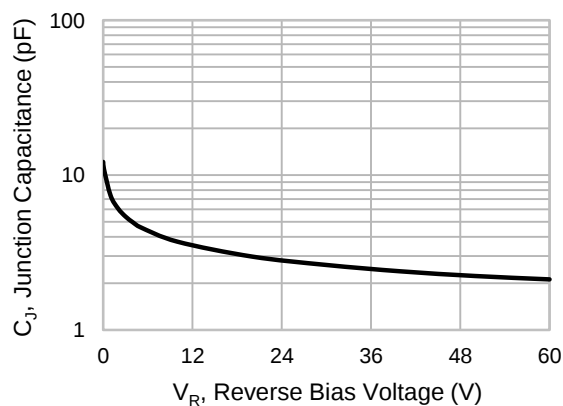


Fig.2 Typical Junction Capacitance

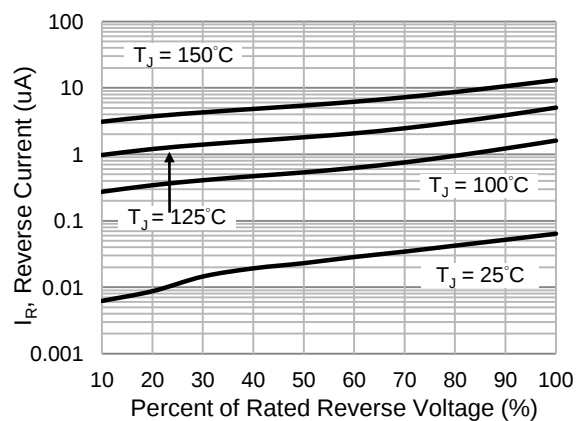


Fig.3 Typical Reverse Characteristics

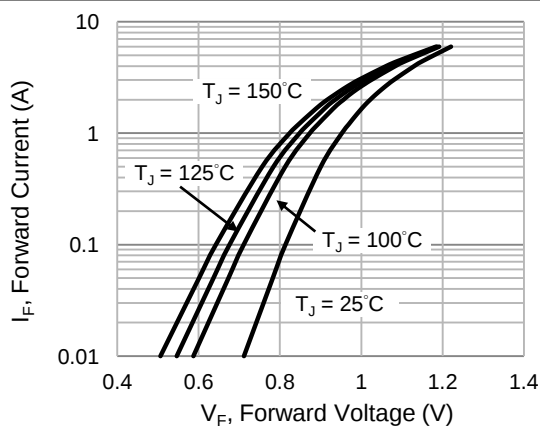


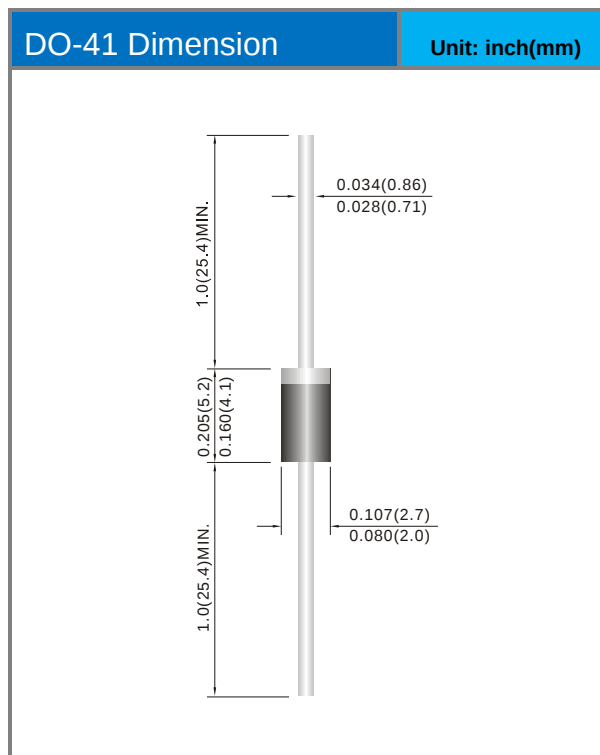
Fig.4 Typical Forward Characteristics

1N4007G

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
1N4007G_AY_00001	DO-41	5K pcs / Ammo	1N4007G	Halogen free

Packaging Information & Mounting Pad Layout





1N4007G

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