

5

Cathode

Anode

1N4007G

GLASS PASSIVATED JUNCTION PLASTIC RECTIFIERS

Voltage 1000 V Current 1 A Features Glass passivated chip junction • Glass passivated chip junction Low forward voltage drop • 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

Maximum Ratings and Thermal Characteristics ($T_A = 25 \degree C$ 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	А
Peak Forward Surge Current: 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	30	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	5	pF
Typical Thermal Resistance	${\mathsf R}_{ extsf{ heta}JA}^{(1)}$ ${\mathsf R}_{ extsf{ heta}JC}^{(2)}$	80 23	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C



1N4007G

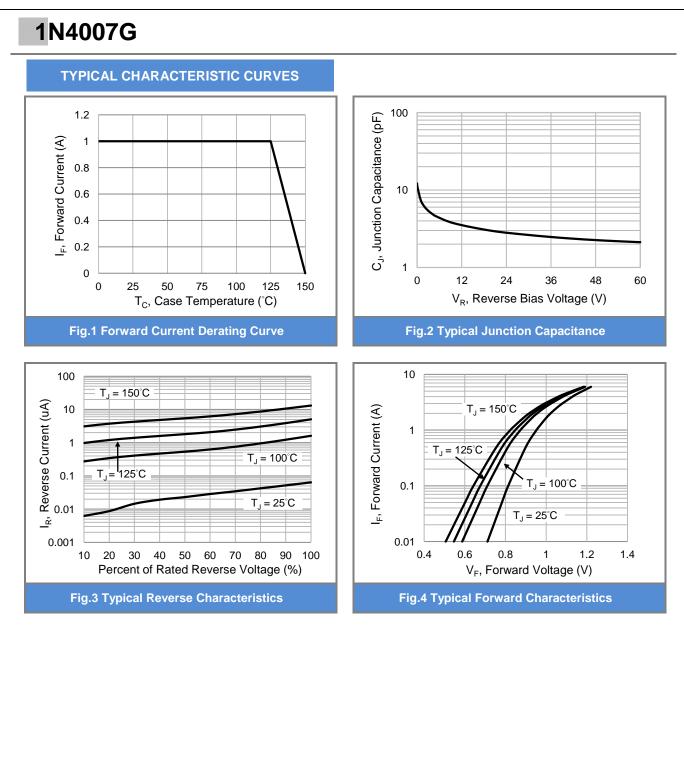
Electrical Characteristics ($T_A = 25 \degree C$ unless otherwise noted)

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
		$I_F = 1 \text{ A}, \text{ T}_J = 25 \degree \text{C}$	-	-	1.1	
		I _F = 0.5 A, T _J = 125 °C	-	0.78	-	
		I _F = 1 A, T _J = 125 °C	-	0.85	-	
Reverse Current	I _R	$V_R = 1000 \text{ V}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	5	uA
		V _R = 1000 V,T _J = 125 °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



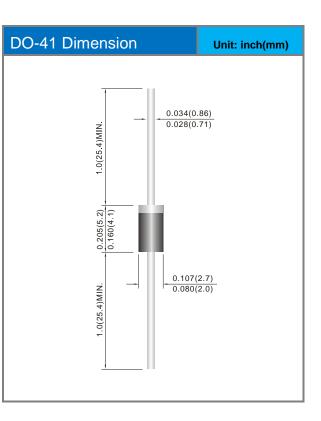


1N4007G

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

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching category:

Click to view products by Panjit manufacturer:

Other Similar products are found below :

MMBD3004S-13-F 1N3611 NTE156A NTE6244 1SS400CST2RA SDAA13 SHN2D02FUTW1T1G 1N4449 1N456A 1N914BTR D291S45T BAS 16-02L E6327 BAS 16-02V H6327 BAS 21U E6327 BAS 28 E6327 BAW56DWQ-7-F BAW56M3T5G BAW75-TAP MM230L-CAA IDW40E65D1 JAN1N3600 JAN1N4454UR-1 SMMSD4148T3G BYW95B/A52A NSVDAN222T1G CDSZC01100-HF BAV70HDW-7 BAS28-7 JANTX1N6640 BAW56HDW-13 BAS28 TR VS-HFA04SD60STR-M3 1SS388-TP BAV99TQ-13-F BAV99HDW-13 1N4004 MMDB30-E28X LS4148 IDV15E65D2 W0503RH200S0L M0268SJ200NLF M0268RJ200NLF S3MBF US1J DAN217U-TP SHV-06JNS-Q IDW30C65D1 IDW80C65D1 VS-HFA30TA60CSR-M3 M1MA152WAT1