FEATURES

Low reverse leakage	
High forward surge capability	
High reliability	
Meet AEC-Q101 Requirements	



MECHANICAL DATA

A	P	P	R	0	V	Α	LS

Case:DO-41 Molded plastic	RoHS	Compliance with 2011/65/EU
Polarity Symbol Marking On Body		Compliance with IEC61249-2-21:2003
Mounting Position : Any		

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 25$ °C)

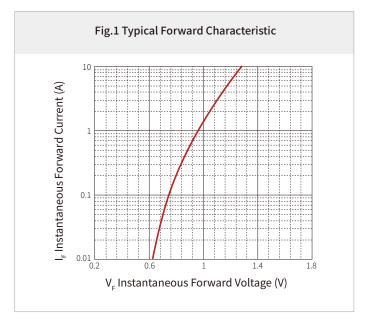
Parameter		Symbol	1N 4001GQ	1N 4002GQ	1N 4003GQ	1N 4004GQ	1N 4005GQ	1N 4006GQ	1N 4007GQ	Unit
Marking			1N	1N 4002GQ	1N	1N	1N	1N	1N 4007GQ	
Maximum Recurrent Peak Revers	se Voltage	V_{RRM}	50	100	200	400	600	800	1000	
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	
Maximum average forward rectified curren		I _{F(AV)}	1.0						А	
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave		I _{FSM}	30.0						^	
Maximum Forward Voltage at I _F =1.0A		V _F	1.1						V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C		5						μΑ	
	T _A =125°C	I _R	100							
Type junction capacitance V _c =4.0V,f=1MHz		C	30						pF	
Typical thermal resistance (Note 1)		$R_{\theta JA}$	65						°C/W	
Operating Junction And Storage Temperature Range		$T_{j}T_{STG}$	-55~+150						°C	

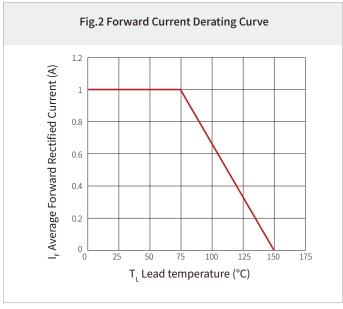
Note:

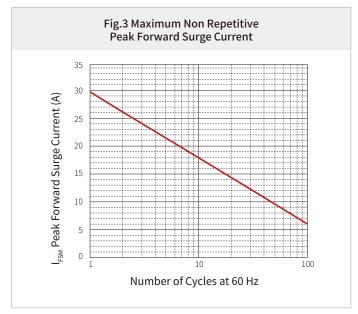
¹⁾ Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, PCB mounted

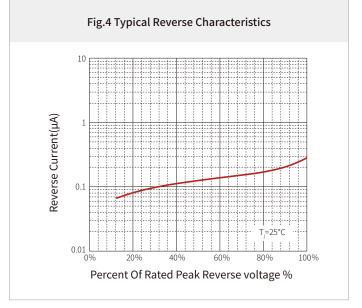


CHARACTERISTIC CURVES



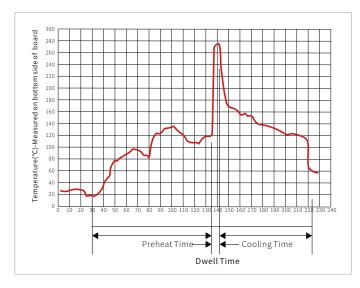






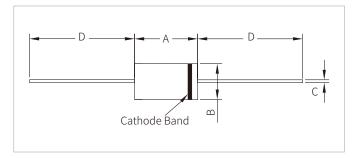


WAVE SOLDERING



	Wave Parameter	Lead-free assembly
	Temperature Min	100°C
Pre Heat	Temperature Max	150°C
	Time(min to max)	60 – 180 secs
Solderpo	t Temperature	280°C Max
Solder Dv	vell Time	2-5 seconds

DO-41 PACKAGE INFORMATION



Ref.	Millim	neters	Inches		
KCI.	Min.	Max.	Min.	Max.	
А	4.10	5.20	0.160	0.205	
В	2.00	2.70	0.080	0.107	
С	0.71	0.86	0.028	0.034	
D	25.40	-	1.000	-	

ORDERING INFORMATION

Part Number	Component Package	Per Carton	Description
1N4001GQ-1N4007GQ	DO-41	5000pcs	Вох



1N4001GQ-1N4007GQ General Purpose Rectifier

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By QR Code





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