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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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1A, 50V - 1000V Glass Passivated Rectifiers

FEATURES

- Glass passivated chip junction
- High current capability, Low VF
- High reliability
- High surge current capability
- Low power loss, high efficiency
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition







MECHANICAL DATA

Case: DO-204AL (DO-41)

Molding compound, UL flammability classification rating 94V-0

Part No. with suffix "H" means AEC-Q101 qualified

Packing code with suffix "G" means green compound (halogen-free)

Terminal: Pure tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test **Weight:** 0.33 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)									
PARAMETER	SYMBOL	1 N	1 N	1 N	1 N	1 N	1 N	1 N	UNIT
FARAMETER	STWBOL	4001G	4002G	4003G	4004G	4005G	4006G	4007G	
Maximum repetitive 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	I _{F(AV)}	1			Α				
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	If sine-wave I _{FSM} 30		Α						
Maximum instantaneous forward voltage (Note 1) @ 1 A	V _F	1.0				V			
Maximum reverse current @ rated VR T _J =25 °C T _J =125 °C	I _R	5 100			μA				
Typical junction capacitance (Note 2)	ce (Note 2) C _J 10		pF						
Typical thermal resistance		80					°C/W		
Operating junction temperature range T _J		- 55 to +150					°C		
Storage temperature range		- 55 to +150					°C		
Nata A. Dula a Tanto Alla DIM (000 and 40) Duta Oracle	T _{STG}	1							

Note1: Pulse Test with PW=300µs, 1% Duty Cycle

Note2: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

Document Number: DS_D1410021



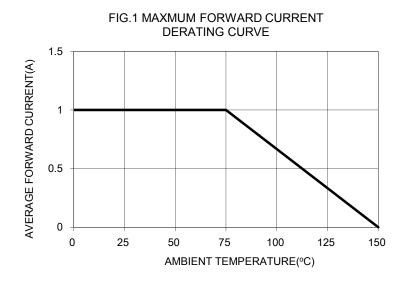
ORDERING INFORMATION							
PART NO.	PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING		
	SUFFIX		SUFFIX				
1N400xG (Note 1)	н	A0		DO-41	3,000 / Ammo box (52mm taping)		
		R0	G	DO-41	5,000 / 13" Paper reel		
		R1	G	DO-41	5,000 / 13" Paper reel (Reverse)		
		В0		DO-41	1,000 / Bulk packing		

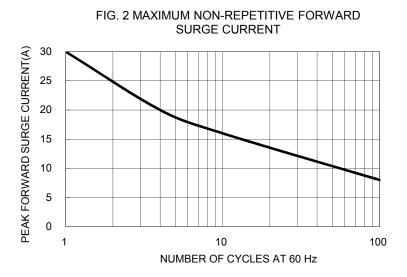
Note 1: "x" defines voltage from 50V (1N4001G) to 1000V (1N4007G)

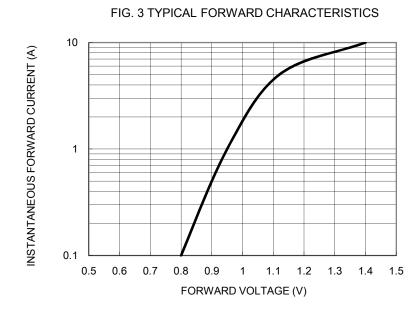
EXAMPLE						
PREFERRED PART NO.	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION	
1N4007GHA0G	1N4007G	Н	A0	G	AEC-Q101 qualified Green compound	

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)







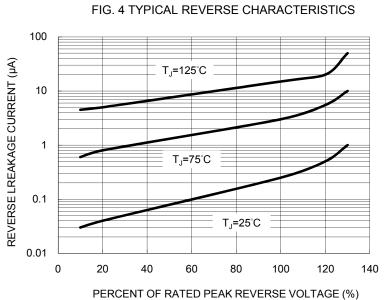
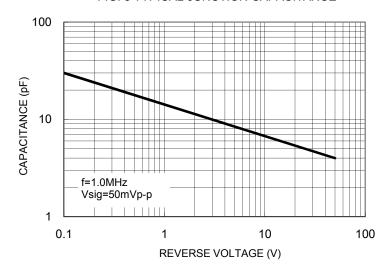
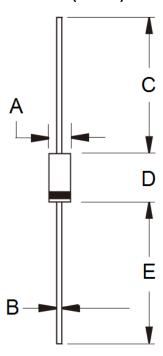




FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS DO-204AL (DO-41)



DIM.	Unit	(mm)	Unit (inch)			
Dilvi.	Min	Max	Min	Max		
Α	2.00	2.70	0.079	0.106		
В	0.71	0.86	0.028	0.034		
С	25.40	1	1.000	-		
D	4.20	5.20	0.165	0.205		
Е	25.40	-	1.000	-		

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound YWW = Date Code

YWW = Date Code F = Factory Code





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