



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)

	SYMBOL	1N	1N	1N	1N	1N	1N	1N	UNIT
PARAMETER		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	I _{FSM}	30						А	
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)	C _J				10				pF
Typical thermal resistance	$R_{\theta JA}$				80				°C/W
Operating junction temperature range	T _J	- 55 to +150						°C	
Storage temperature range	T _{STG}			-	55 to +15	0	_		°C

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



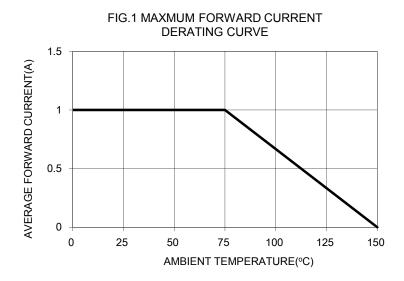
ORDERING INFORMATION							
PART NO.	PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING		
	SUFFIX		SUFFIX				
		A0		DO-41	3,000 / Ammo box (52mm taping)		
1N400xG (Note 1)	Н	R0	G	DO-41	5,000 / 13" Paper reel		
		R1	G	DO-41	5,000 / 13" Paper reel (Reverse		
		B0		DO-41	1,000 / Bulk packing		

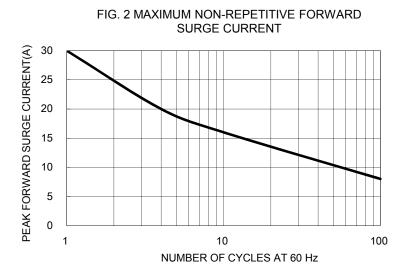
Note 1: "x" defines voltage from 50V (1N4001G) to 1000V (1N4007G)

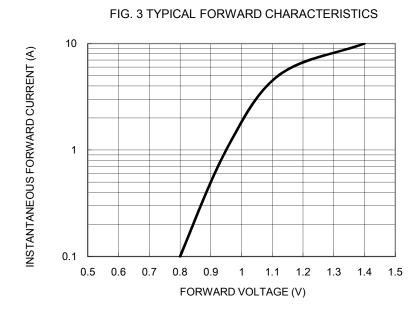
EXAMPLE							
PREFERRED PART NO.	PART NO. PACKING CODE SUFFIX		PACKING CODE SUFFIX	DESCRIPTION			
1N4007GHA0G	1N4007G	Н	Α0	G	AEC-Q101 qualified Green compound		

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)







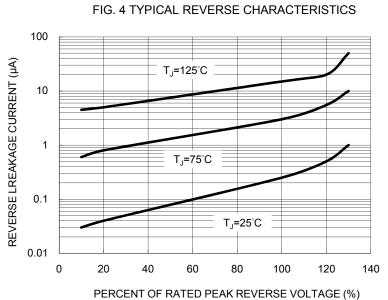
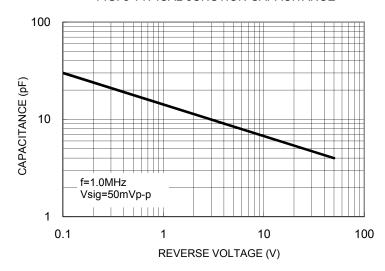
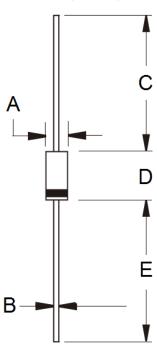




FIG. 5 TYPICAL JUNCTION CAPACITANCE



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



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	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	-	1.000	-	
D	4.20	5.20	0.165	0.205	
E	25.40	-	1.000	-	

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code F = Factory Code





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