

3A, 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



DO-201AD





MECHANICAL DATA

Case: DO-201AD

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:** 1.2 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)									
PARAMETER	SYMBOL	1N	1N	1N	1N	1N	1N	1N	UNIT
I ANAMETER		5400G	5401G	5402G	5404G	5406G	5407G	5408G	
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)}	3					Α		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	125					Α		
Maximum instantaneous forward voltage (Note 1) @ 3 A	V _F	1.1 1.0				V			
Maximum reverse current @ rated VR T_J =25 °C T_J =125 °C	I _R	5 100				μΑ			
Typical junction capacitance (Note 2)	CJ	25					pF		
Typical thermal resistance	$R_{ heta JC} \ R_{ heta JA}$	15 45					°C/W		
Operating junction temperature range	T _J	- 55 to +150				°C			
Storage temperature range	T _{STG}	- 55 to +150					°C		

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

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



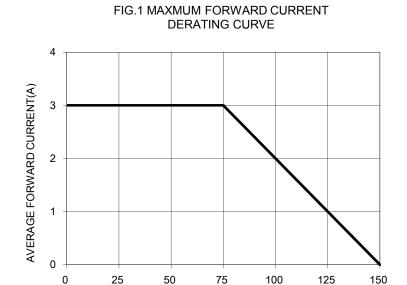
ORDERING INFORMATION							
PART NO.	PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING		
	SUFFIX		SUFFIX				
1N540xG (Note 1)		A0		DO-201AD	500 / Ammo box		
	ш	R0	G	DO-201AD	1,250 / 13" Paper reel		
	П	В0	G	DO-201AD	500 / Bulk packing		
		X0		DO-201AD	Forming		

Note 1: "x" defines voltage from 50V (1N5400G) to 1000V (1N5408G)

EXAMPLE						
PREFERRED		PART NO.	PACKING CODE	PACKING CODE	DESCRIPTION	
PART NO.	PART NO.	SUFFIX	PACKING CODE	SUFFIX		
1N5408GHA0G	1N5408G	Н	Α0	G	AEC-Q101 qualified Green compound	

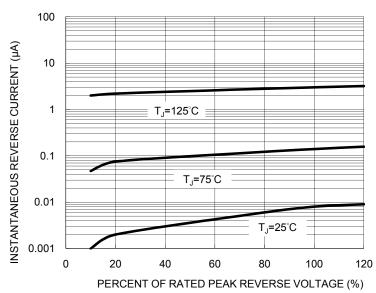
RATINGS AND CHARACTERISTICS CURVES

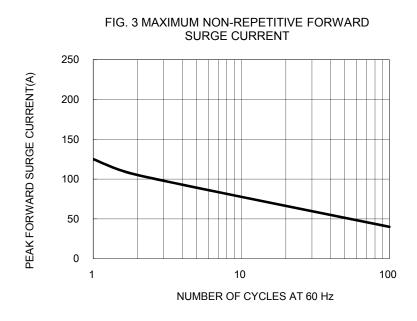
(T_A=25°C unless otherwise noted)



AMBIENT TEMPERATURE(°C)

FIG. 2 TYPICAL REVERSE CHARACTERISTICS





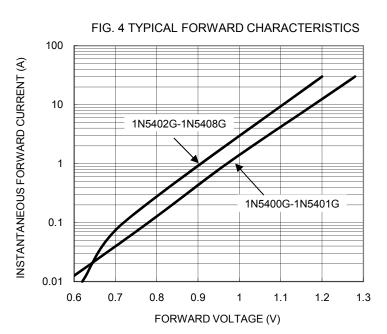
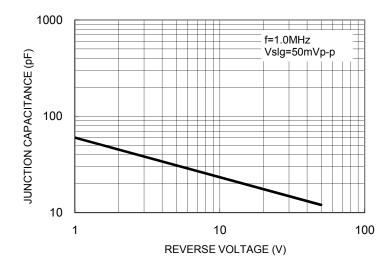


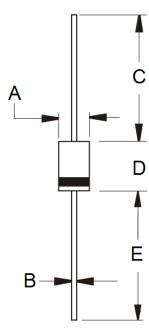


FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS

DO-201AD



DIM.	Unit	(mm)	Unit (inch)			
DIIVI.	Min	Max	Min	Max		
Α	5.00	5.60	0.197	0.220		
В	1.20	1.30	0.048	0.052		
С	25.40	-	1.000	-		
D	8.50	9.50	0.335	0.375		
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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