



Silicon Rectifiers

FEATURES

- High efficiency, Low VF
- High current capability
- High reliability
- High surge current capability
- Low power loss
- 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

Base P/N with suffix "G" on packing code - green compound (halogen-free)

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

Meet JESD 201 class 1A whisker test **Weight:** 1.2 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERSTICS (T _A =25°C unless otherwise noted)									
PARAMETER	SYMBOL	1N	1N	1N	1N	1N	1N	1N	UNIT
PARAIVIETER	STIVIBOL	5400	5401	5402	5404	5406	5407	5408	
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}	200					А		
Rating for fusing (t<8.3ms)	l ² t				166				A ² s
Maximum instantaneous forward voltage (Note 1) @ 3 A	V _F	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				50				pF
Typical thermal resistance	$R_{\theta jA}$				40				°C/W
Operating junction temperature range	TJ	- 55 to +150					οС		
Storage temperature range	T _{STG}	- 55 to +150					οС		

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

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



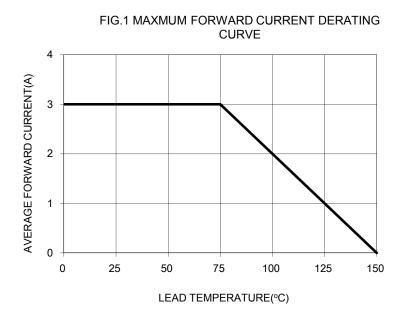
ORDERING INFORMATION						
PART NO.	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING		
		CODE				
	A0	Suffix "G"	DO-201AD	500 / Ammo box		
1N540x (Note 1)	R0		DO-201AD	1,250 / 13" Paper reel		
	B0		DO-201AD	500 / Bulk packing		
	X0		DO-201AD	Forming		

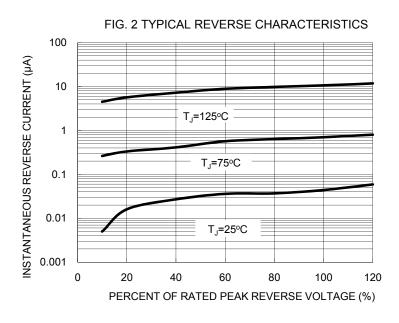
Note 1: "x" defines voltage from 50V (1N5400) to 1000V (1N5408)

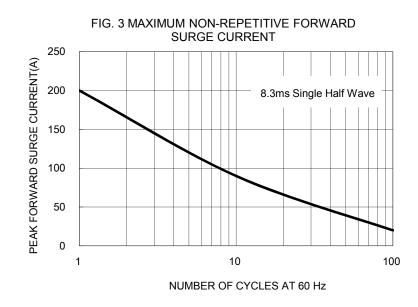
EXAMPLE							
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION			
1N5408 A0	1N5408	A0					
1N5408 A0G	1N5408	A0	G	Green compound			

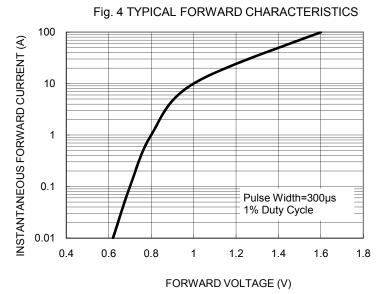
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

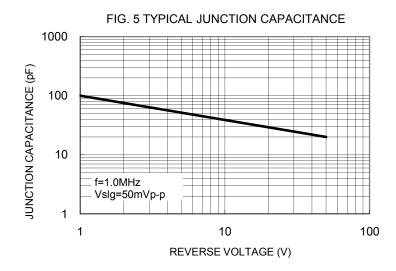




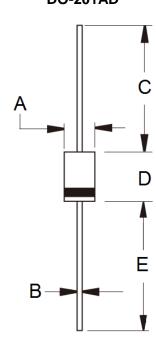








PACKAGE OUTLINE DIMENSIONS DO-201AD



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		
Е	25.40	-	1.000	-		

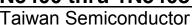
MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code

F = Factory Code





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