

3A, 50V - 1000V 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



Case: DO-201AD DO-201AD

Molding compound, UL flammability classification rating 94V-0 Packing code with suffix "G" means green compound (halogen-free) **Terminal:** Pure 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
		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	Vpc	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					Α		
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 V _R	₋	5							
T ₁ =125°C	I _R	100						μA	
Typical junction capacitance (Note 2)	CJ	50					pF		
Typical thermal resistance	$R_{\theta JA}$	40				°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=300us 1% Duty Cycle	•	•							

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_D1406023



ORDERING INFORMATION							
PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING			
		SUFFIX (*)					
4NE 40	A0		DO-201AD	500 / Ammo box			
1N540x (Note 1)	R0	G	DO-201AD	1,250 / 13" Paper reel			
(11010-1)	В0		DO-201AD	500 / Bulk packing			

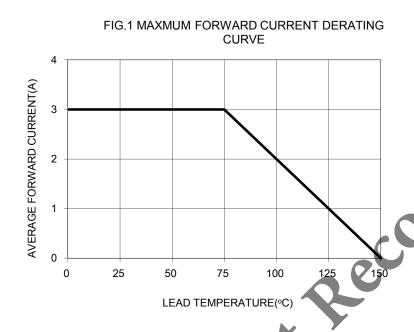
Note 1: "x" defines voltage from 50V (1N5400) to 1000V (1N5408)

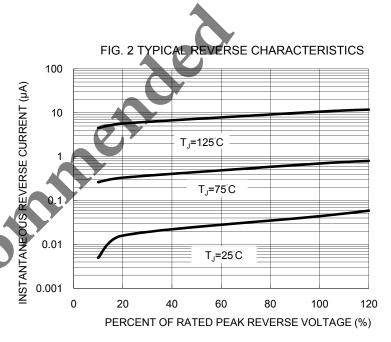
^{*:} Optional available

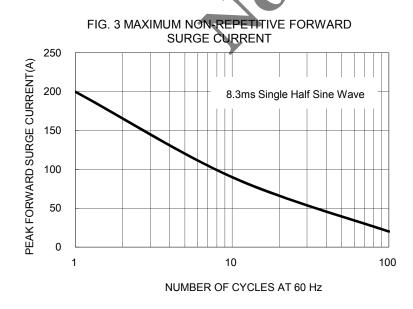
EXAMPLE							
PREFERRED P/N	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION			
1N5408 A0G	1N5408	A0	G	Green compound			

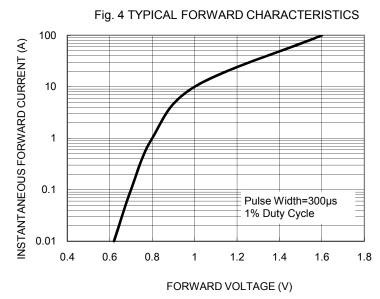
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)



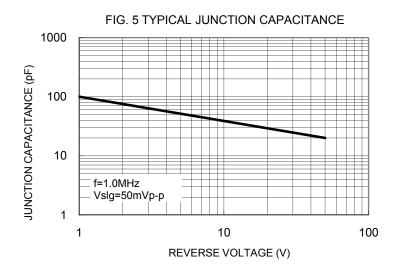






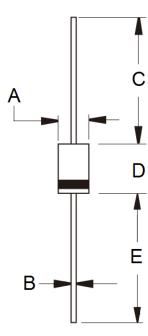
Document Number: DS_D1406023 Version: G15





PACKAGE OUTLINE DIMENSIONS

DO-201AD



MARKING DIAGRAM



P/N = Specific Device Code

G = Green Compound

YWW = Date Code

F = Factory Code





Specifications of the products displayed herein are subject to change without notice. TSC or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in TSC's terms and conditions of sale for such products, TSC assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of TSC products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify TSC for any damages resulting from such improper use or sale.

Document Number: DS_D1406023 Version: G15