

Silicon Rectifiers

FEATURES

- High efficiency, Low VF
- High current capability
- High reliability
- 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

MECHANICAL DATA

Case: DO-204AL (DO-41)

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:** 0.33g (approximately)



DO-204AL (DO-41)

- 55 to +125





MAXIMUM RATINGS AND ELECTRICAL CHAP	RACTERIST	ICS (1 _A -	-25 (ur	ness om	erwise n	oted)		•	
PARAMETER	SYMBOL	1N	1N	1N	1N	1N	1N	1N	UNIT
FARAIVIETER	STIVIBOL	5391S	5392S	5393S	5395S	5397S	5398S	5399S	CIVIT
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)}	1.5					Α		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	50				Α			
Maximum instantaneous forward voltage (Note 1) @ 1.5 A	V _F	1.1 1.0				V			
Maximum reverse current @ Rated VR T _J =25 °C T _J =125°C	I _R	5 50				μA			
Typical junction capacitance (Note 2)	Cj	30					pF		
	$R_{\theta jC}$				22				
Typical thermal resistance	$R_{ heta jL}$				25				°C/W
	$R_{\theta jA}$				65				
Operating junction temperature range	T _J	- 55 to +125			οС				

Note 1: Pulse test with PW=300µs, 1% duty cycle

Storage temperature range

Note 2: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.



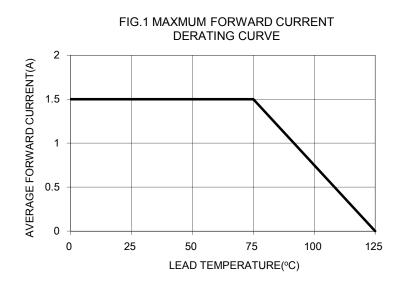
ORDERING INFORMATION					
PART NO.	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING	
		CODE			
1N539xS (Note 1)	A0		DO-41	3,000 / Ammo box (52mm taping)	
	R0	Suffix "G"	DO-41	5,000 / 13" Paper reel	
	R1	Suillx G	DO-41	5,000 / 13" Paper reel (Reverse)	
	B0		DO-41	1,000 / Bulk packing	

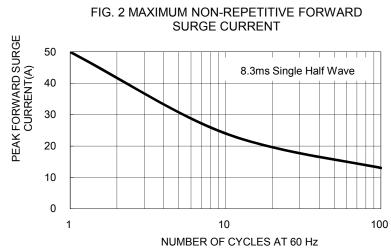
Note 1: "x" defines voltage from 50V (1N5391S) to 1000V (1N5399S)

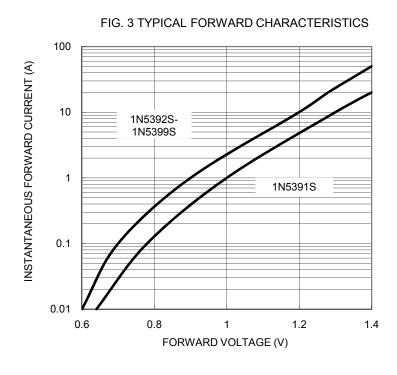
EXAMPLE						
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION		
1N5399S A0	1N5399S	A0				
1N5399S A0G	1N5399S	A0	G	Green compound		

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)







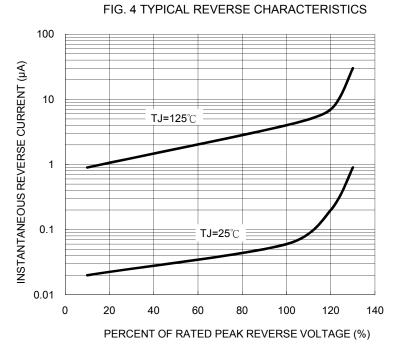
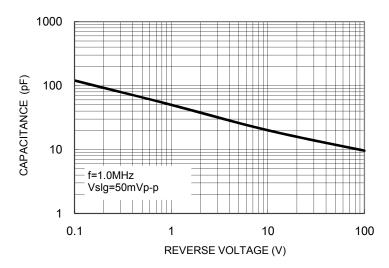
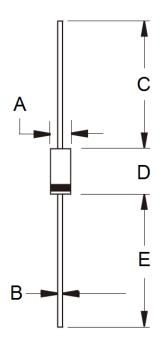




FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS



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		
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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Document Number: DS_D1406002 Version: E14

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Website:

Welcome to visit www.ameya360.com

Contact Us:

Address:

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd Minhang District, Shanghai , China

> Sales:

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

Customer Service :

Email service@ameya360.com

> Partnership:

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com