



1A, 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







MECHANICAL DATA

Case: A-405

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: 0.2g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)									
PARAMETER	SYMBOL	1N 4001S	1N 4002S	1N 4003S	1N 4004S	1N 4005S	1N 4006S	1N 4007S	UNIT
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					Α		
Maximum instantaneous forward voltage (Note 1) @ 1 A	V _F				1.0				V
Maximum reverse current @ rated V_R $T_J=25^{\circ}C$ $T_J=125^{\circ}C$	I _R	5 50						μΑ	
Typical junction capacitance (Note 2)	C _J				15				pF
Typical thermal resistance	$R_{\theta JA}$				50				°C/W
Operating junction temperature range	TJ			-	55 to +15	0			°C
Storage temperature range	T _{STG}			-	55 to +15	0			°C

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

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

Document Number: DS_D1402005



ORDERING INFORMATION						
PART NO.	PACKING CODE	PACKING CODE SUFFIX ^(*)	PACKAGE	PACKING		
	A1		A-405	3K / AMMO box (26mm tape)		
1N400xS (Note 1)	A0	G	A-405	3K / AMMO box (52mm tape)		
	R0	G	A-405	5K / 13" Reel		
	В0		A-405	1K / Bulk packing		

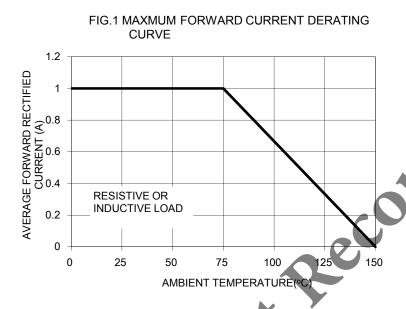
Note 1: "x" defines voltage from 50V (1N4001S) to 1000V (1N4007S)

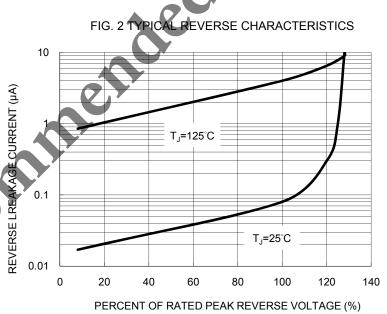
^{*:} Optional available

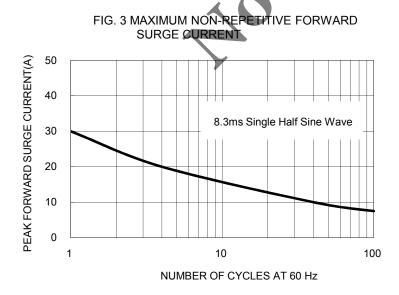
EXAMPLE				
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
1N4007S A0G	1N4007S	A0	G	Green compound

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)







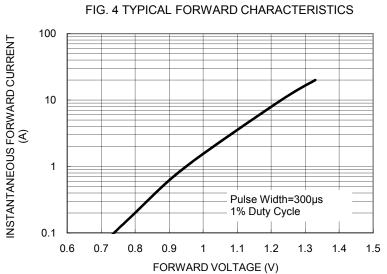
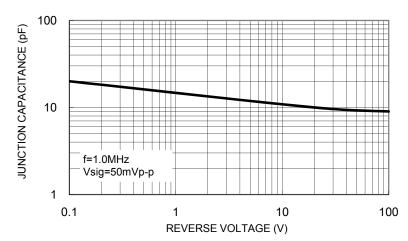


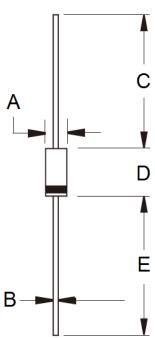


FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS

A-405



DIM.	Unit	(mm)	Unit (inch)				
DIIVI.	Min Max		Min	Max			
Α	2.00	2.70	0.079	0.106			
В	0.53	0.64	0.021	0.025			
С	25.40	-	1.000	5)			
D	4.20	5.20	0.165	0.205			
Е	25.40		1.000	-			
2.ecollin.							

MARKING DIAGRAM



P/N = Specific Device Code
G = Green Compound
YWW = Date Code
F = Factory Code





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