

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)

	SYMBOL	1N	1N	1N	1N	1N	1N	1N	UNIT
PARAMETER		4001	4002	4003	4004	4005	4006	4007	
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						А	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	IFSM	30					А		
Rating for fusing (t<8.3ms)	l ² t	3.7						A ² s	
Maximum instantaneous forward voltage (Note 1) @ 1 A	V _F	1.0						V	
Maximum reverse current @ Rated VR $T_J=25 \degree$ $T_J=125\degree$	I _R				5 50				μA
Typical junction capacitance (Note 2)	Cj				10				pF
	R _{θjC}		6						
Typical Thermal Resistance	$R_{\theta jL}$		15						
	$R_{ heta j A}$	65							
Operating junction temperature range	TJ	- 55 to +150						°C	
Storage temperature range	T _{STG}	- 55 to +150						ос	

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



1N4001 thru 1N4007

Taiwan Semiconductor

ORDERING INFORMATION

PART NO.	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING					
		CODE							
1N400x (Note 1)	A0	A0 R0 Suffix "G"	DO-41	3,000 / Ammo box (52mm taping)					
	R0		DO-41	5,000 / 13" Paper reel					
	R1	Sullix G	DO-41	5,000 / 13" Paper reel (Reverse)					
	B0	В0	DO-41	1,000 / Bulk packing					

Note 1: "xx" defines voltage from 50V (1N4001) to 1000V (1N4007)

EXAMPLEPREFERRED P/NPART NO.PACKING CODEGREEN COMPOUND
CODEDESCRIPTION1N4007 A01N4007A001N4007 A0G1N4007A0G1N4007 A0G1N4007A0G

RATINGS AND CHARACTERISTICS CURVES

(TA=25 $^{\circ}$ C unless otherwise noted)

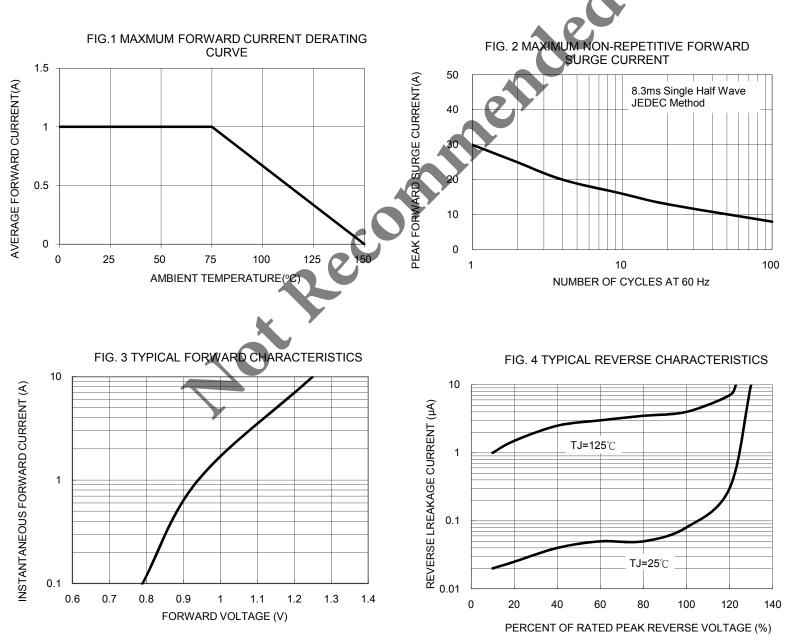
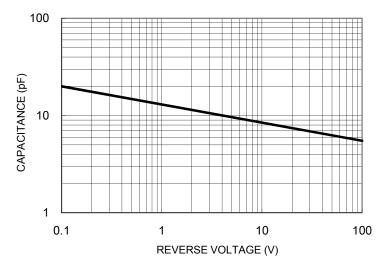
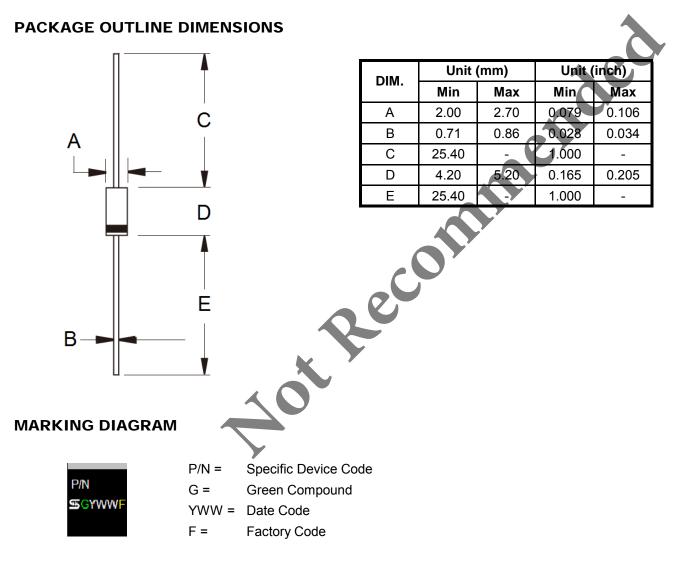




FIG. 5 TYPICAL JUNCTION CAPACITANCE









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