



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



DO-204AL (DO-41)





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)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25℃ unless otherwise noted)									
PARAMETER	SYMBOL	1N 4001	1N 4002	1N 4003	1N 4004	1N 4005	1N 4006	1N 4007	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		
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 °C T _J =125°C	I _R	5 50				μΑ			
Typical junction capacitance (Note 2)	Cj	10					pF		
	$R_{\theta jC}$				6				
Typical Thermal Resistance	$R_{ heta jL}$				15				°C/W
	R_{\thetajA}				65				
Operating junction temperature range	TJ	- 55 to +150				οС			
Storage temperature range	T _{STG}			- {	55 to +1	50			οС

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

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

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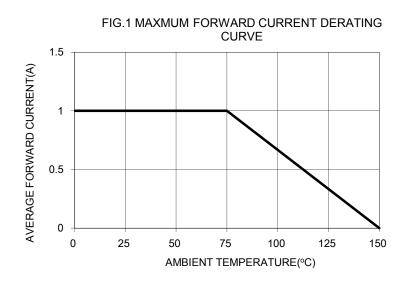
ORDERING INFORMATION						
PART NO.	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING		
		CODE				
	A0	DO-41	3,000 / Ammo box (52mm taping)			
1N400x	R0	Suffix "G"	DO-41	5,000 / 13" Paper reel		
(Note 1)	R1		DO-41	5,000 / 13" Paper reel (Reverse)		
	B0		DO-41	1,000 / Bulk packing		

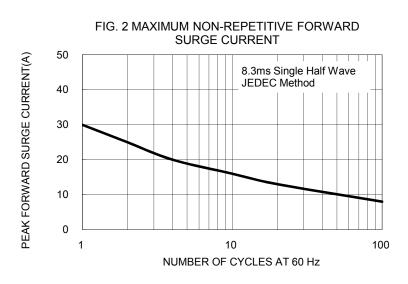
Note 1: "xx" defines voltage from 50V (1N4001) to 1000V (1N4007)

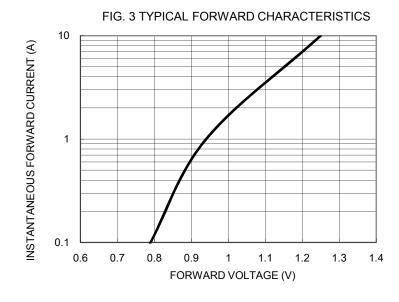
EXAMPLE							
PREFERRED P/N	REFERRED P/N PART NO. PACKING CODE		GREEN COMPOUND CODE	DESCRIPTION			
1N4007 A0	1N4007	A0					
1N4007 A0G	1N4007	A0	G	Green compound			

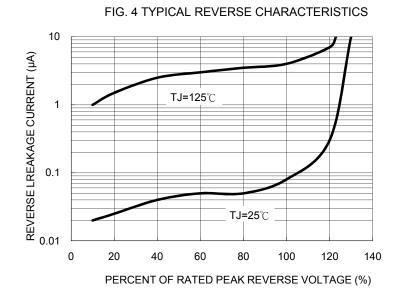
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)





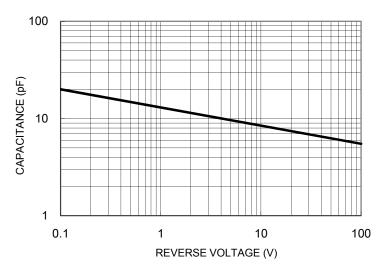




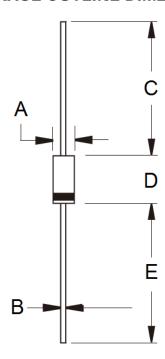
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FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS



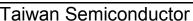
DIM.	Unit	(mm)	Unit (inch)			
DIIVI.	Min	Max	Min	Max		
Α	2.00	2.70	0.079	0.106		
В	0.71	0.86	0.028	0.034		
С	25.40	-	1.000	-		
D	4.20	5.20	0.165	0.205		
Е	25.40	_	1.000	-		

MARKING DIAGRAM



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

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