

Switching Diode

FEATURES

- Surface Mounted Device
- Fast Switching Speed
- Moisture sensitivity level (MSL): 1
- Pb free and RoHS compliant







MECHANICAL DATA

- Case: Bend lead SOD-323 package

- High temperature soldering guaranteed: 260°C/10s

- Weight: 4.5mg (approximately)

- Marking: T4

APPLICATION

General purpose switching application

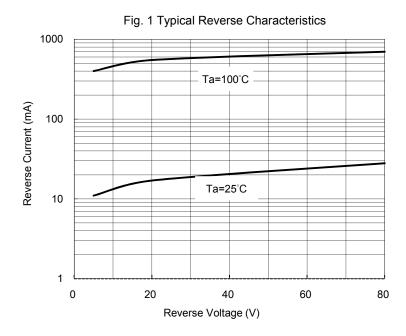
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)				
PARAMETER	SYMBOL	VALUE	UNIT	
Peak reverse voltage	V_{RM}	100	V	
DC blocking voltage	V _R	75	V	
Non-repettive peak forward current	I _{FM}	300	mA	
Average rectified output current	Io	150	mA	
Peak forward surge current @t=1µs	I _{FSM}	2.0	A	
Power dissipation	P _D	200	mW	
Junction temperature	T _J	150	°C	
Storage temperature	T _{STG}	- 55 to +150	°C	

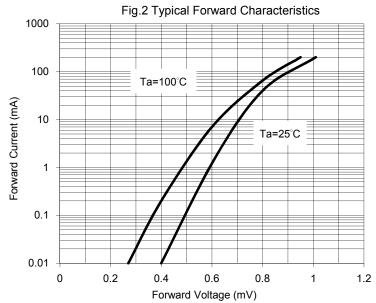
PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
	V_{F1}	I _F = 1mA			0.715	V
Forward voltage	V_{F2}	I _F = 10mA			0.885	V
Forward voitage	V_{F3}	I _F = 50mA			1	V
	V_{F4}	I _F = 150mA			1.25	V
Reverse leakage current	I _{R1}	V _R =75V			1	μA
Interesse leakage current	I _{R2}	V _R =20V			25	nA
Capacitance between terminals	C_T	V _R =0V , f=1MHz			2	pF
Reverse recovery time	t _{rr}	$I_F = I_R = 10 \text{mA}, I_{rr} = 0.1 \cdot I_R,$ $R_L = 100 \Omega$			4.0	ns

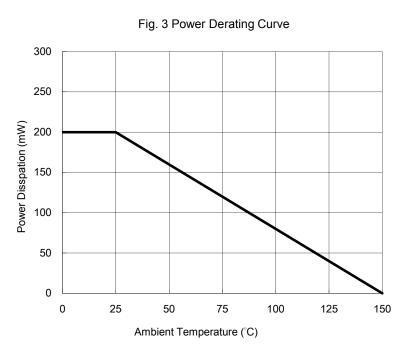


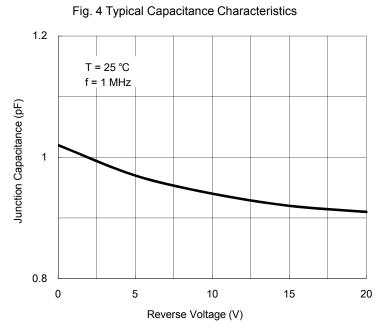
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)









Version: B14



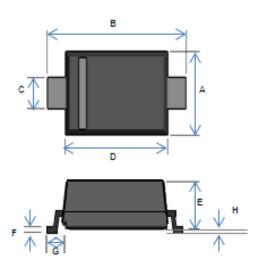
ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
1N4148WS-G	-xx (Note 1)	RV	O	SOD-323	3K / 7" Reel

Note 1: Part No. Suffix "-xx " would be used for special requirement

EXAMPLE					
PREFERRED PART NO.	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
1N4148WS-G RVG	1N4148WS-G		RV	G	Multiple manufacturer sources, Green compound
1N4148WS-G-N0 RVG	1N4148WS-G	-N0	RV	G	Defined manufacturer source, Green compound

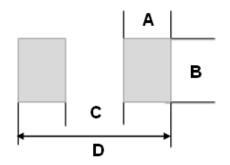


PACKAGE OUTLINE DIMENSIONS SOD-323



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min	Max	Min	Max	
Α	1.15	1.40	0.045	0.055	
В	2.30	2.70	0.091	0.106	
С	0.25	0.45	0.010	0.018	
D	1.60	1.80	0.063	0.071	
Е	0.80	1.00	0.031	0.039	
F	0.05	0.17	0.002	0.007	
G	0.475 REF		0.19	REF	
Н	-	0.10	-	0.004	

SUGGESTED PAD LAYOUT



DIM.	Unit (mm)	Unit (inch)		
DIIVI.	Тур.	Тур.		
Α	0.63	0.025		
В	0.83	0.033		
С	1.60	0.063		
D	2.86	0.113		







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