

Small Signal Product

200mW High Speed SMD Switching Diode

FEATURES

- Fast switching device ($t_{rr} < 4.0\text{ns}$)
- Surface Mount Device Type
- Moisture sensitivity level 1
- Matte Tin (Sn) lead finish with Nickel (Ni) underplate
- Pb free version and RoHS compliant
- Packing code with suffix "G" means green compound (halogen-free)


SOD-323F


MECHANICAL DATA

- Case: Flat lead SOD-323F small outline plastic package
- Terminal: Matte tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- High temperature soldering guaranteed: $260^{\circ}\text{C}/10\text{s}$
- Polarity: Indicated by cathode band
- Weight: $6 \pm 0.5\text{mg}$
- Marking code: S4



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ($T_A = 25^{\circ}\text{C}$ unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Power Dissipation	P_D	200	mW
Repetitive Peak Reverse Voltage	V_{RRM}	90	V
Reverse Voltage	V_R	80	V
Minimum Breakdown Voltage at $I_R = 100\mu\text{A}$	V_{BR}	80	V
Forward Current	I_F	250	mA
Continue Forward Current	I_O	150	mA
Repetitive Peak Forward Voltage	I_{FSM}	500	mA
Maximum Reverse Leakage Current at $V_R = 80\text{V}$	I_R	100	nA
Maximum Forward Voltage at $I_F = 100\text{mA}$	V_F	1.2	V
Maximum Reverse Recovery Time at $I_F = 10\text{mA}$, $V_R = 6\text{V}$, $R_L = 100\text{ Ohms}$	t_{rr}	4	ns
Maximum Junction Capacitance at $V_R = 0.5\text{V}$, $f = 1\text{MHz}$	C_j	4	pF
Operating Temperature Range	T_{OPR}	- 65 to +150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	- 65 to +150	$^{\circ}\text{C}$

Note : These ratings are limiting values above which the serviceability of the diode may be impaired

Small Signal Product

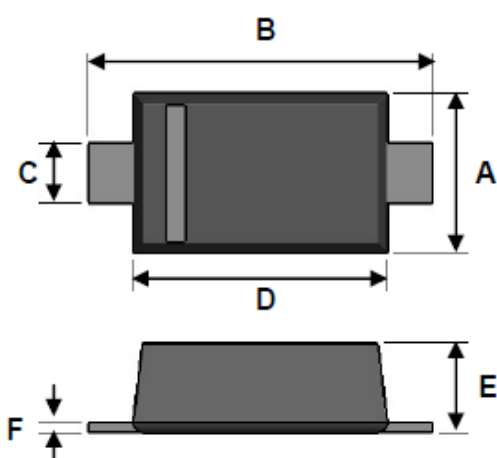
ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
1SS355	-xx (Note 1)	RR	G	SOD-323F	3K / 7" Reel
		R9			10K / 13" Reel

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

EXAMPLE					
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
1SS355 RRG	1SS355		RR	G	Multiple manufacture source Green compound
1SS355-L0 RRG	1SS355	-L0	RR	G	Defined manufacture source Green compound
1SS355-B0 RRG	1SS355	-B0	RR	G	Defined manufacture source Green compound

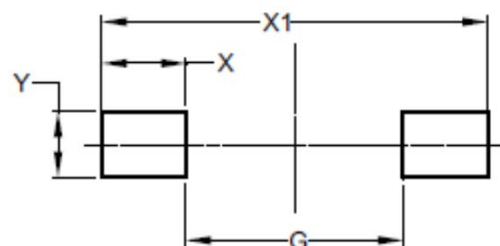
PACKAGE OUTLINE DIMENSIONS

SOD-323F



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	1.15	1.35	0.045	0.053
B	2.30	2.80	0.091	0.110
C	0.25	0.40	0.010	0.016
D	1.60	1.80	0.063	0.071
E	0.80	1.10	0.031	0.043
F	0.05	0.25	0.002	0.010

SUGGEST PAD LAYOUT



DIM.	Unit (mm)	Unit (inch)
	Typ.	Typ.
G	1.280	0.050
X	0.710	0.028
X1	2.700	0.106
Y	0.403	0.016

Notice

Specifications of the products displayed herein are subject to change without notice. TSC or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in TSC's terms and conditions of sale for such products, TSC assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of TSC products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify TSC for any damages resulting from such improper use or sale.