



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## 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



<b>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</b> ( $T_A = 25^{\circ}\text{C}$ 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

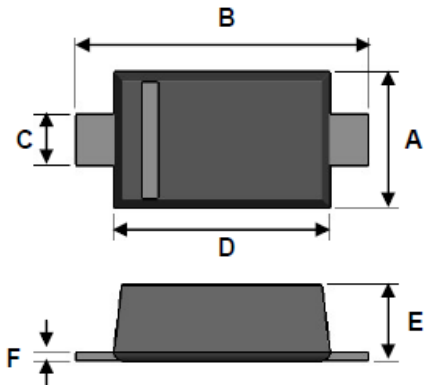
Note 1: Part No. Suffix „-xx “ would be used for special requirement

**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

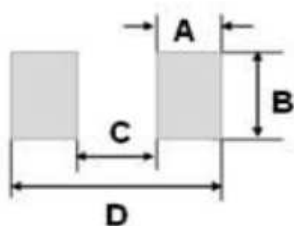
**PACKAGE OUTLINE DIMENSIONS**

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.
A	0.630	0.025
B	0.830	0.033
C	1.600	0.063
D	2.860	0.113

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