

Small Signal Product

200mW High Speed SMD Switching Diode

FEATURES

- Fast switching device (trr<4.0ns)
- 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

100

1.2

4

4

- 65 to +150

- 65 to +150



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°C/10s

Maximum Reverse Leakage Current at V_R = 80V

Maximum Junction Capacitance at V_R = 0.5V, f = 1MHz

Maximum Forward Voltage at I_F = 100mA

at $I_F = 10 \text{mA}$, $V_R = 6 \text{V}$, $R_L = 100 \text{ Ohms}$

Maximum Reverse Recovery Time

OperatingTemperature Range

Storage Temperature Range

- Polarity: Indicated by cathode band
- Weight: 6 ± 0.5mgMarking code: S4

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°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 = 100μA	V_{BR}	80	V	
Forward Current	I _F	250	mA	
Continue Forward Current	Io	150	mA	
Repetitive Peak Forward Voltage	I _{FSM}	500	mA	

 I_R

 V_F

 t_{rr}

Ci

 T_{OPR}

 $\mathsf{T}_{\mathsf{STG}}$

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

Version: C1603

nΑ

٧

рF

٥С

٥С



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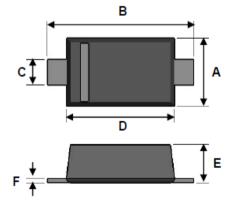
ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
1SS355	-xx (Note 1)	RR R9	G	SOD-323F	3K / 7" Reel 10K / 13" Reel

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

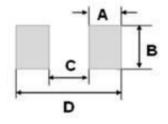
PACKAGE OUTLINE DIMENSIONS

SOD-323F



DIM.	Unit (mm)		Unit (inch)	
Dilvi.	Min	Max	Min	Max
Α	1.15	1.35	0.045	0.053
В	2.30	2.80	0.091	0.110
С	0.25	0.40	0.010	0.016
D	1.60	1.80	0.063	0.071
Е	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)	
DIIVI.	Тур.	Тур.	
Α	0.630	0.025	
В	0.830	0.033	
С	1.600	0.063	
D	2.860	0.113	







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