

## 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)











#### **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
- Polarity: Indicated by cathode band
- Weight: 6 ± 0.5mg
- Marking code: S4

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T <sub>A</sub> =25°C unless otherwise noted)					
PARAMETER	SYMBOL	VALUE	UNIT		
Power Dissipation	PD	200	mW		
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	90	V		
Reverse Voltage	V <sub>R</sub>	80	V		
Minimum Breakdown Voltage at I <sub>R</sub> = 100µA	V <sub>BR</sub>	80	V		
Forward Current	I <sub>F</sub>	250	mA		
Continue Forward Current	Ι <sub>Ο</sub>	150	mA		
Repetitive Peak Forward Voltage	I <sub>FSM</sub>	500	mA		
Maximum Reverse Leakage Current at $V_R = 80V$	I <sub>R</sub>	100	nA		
Maximum Forward Voltage at I <sub>F</sub> = 100mA	V <sub>F</sub>	1.2	V		
Maximum Reverse Recovery Time at $I_F = 10$ mA, $V_R = 6$ V, $R_L = 100$ Ohms	t <sub>rr</sub>	4	ns		
Maximum Junction Capacitance at $V_R = 0.5V$ , f = 1MHz	Cj	4	pF		
OperatingTemperature Range	T <sub>OPR</sub>	- 65 to +150	°C		
Storage Temperature Range	T <sub>STG</sub>	- 65 to +150	°C		

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



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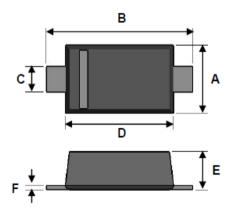
ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
1SS355	-xx (Note 1)	RR R9	G	SOD-323F	3K / 7" Reel 10K / 13" Reel

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

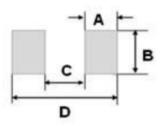
#### PACKAGE OUTLINE DIMENSIONS

SOD-323F



Unit (inch) Unit (mm) DIM. Min Max Min Max 1.35 0.045 0.053 1.15 А 2.30 2.80 0.091 0.110 В 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)
Dilvi.	Тур.	Тур.
А	0.630	0.025
В	0.830	0.033
С	1.600	0.063
D	2.860	0.113



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