

Small Signal Product

## High Speed SMD Switching Diode

### FEATURES

- Fast switching device ( $t_{rr} < 4.0\text{ns}$ )
- Surface mount device type
- Moisture sensitivity level (MSL): 3
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21



SOD-923F



### MECHANICAL DATA

- Case: Flat lead SOD-923F 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
- Marking Code: 7

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Power Dissipation	$P_D$	100	mW
Peak Reverse Voltage	$V_{RM}$	90	V
DC Reverse Voltage	$V_R$	80	V
Peak Forward Current	$I_{FM}$	225	mA
Mean Rectifying Current	$I_O$	100	mA
Surge Current (t=1s)	$I_{Surge}$	500	mA
Junction Temperature	$T_J$	150	°C
Storage Temperature	$T_{STG}$	-55 to +150	°C

PARAMETER	SYMBOL	MIN	TYP	MAX	TEST CONDITION	UNIT
Forward Voltage	$V_F$	-	-	1.2	$I_F = 100\text{mA}$	V
Reverse Current	$I_R$	-	-	0.1	$V_R = 80\text{V}$	μA
Capacitance Between Terminals	$C_r$	-	-	3	$V_R = 0.5\text{V}$ , $f = 1\text{MHz}$	pF
Reverse Recovery Time	$t_{rr}$	-	-	4	$V_R = 6\text{V}$ , $I_F = 10\text{mA}$ , $R_L = 100\Omega$	ns

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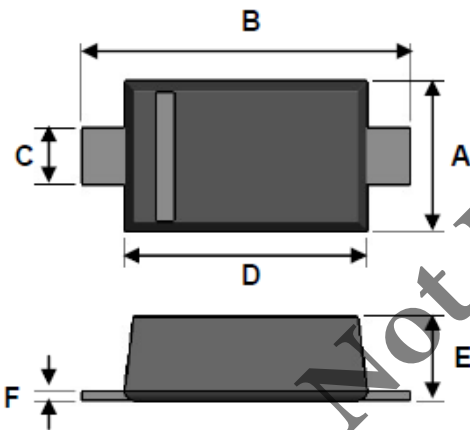
<b>ORDERING INFORMATION</b>				
<b>PART NO.</b>	<b>PACKING CODE</b>	<b>PACKING CODE SUFFIX</b>	<b>PACKAGE</b>	<b>PACKING</b>
1SS400CS	RD	G	SOD-923F	8K / 7" Reel

Note: Whole series with green compound

<b>EXAMPLE</b>				
<b>EXAMPLE P/N</b>	<b>PART NO.</b>	<b>PACKING CODE</b>	<b>PACKING CODE SUFFIX</b>	<b>DESCRIPTION</b>
1SS400CS RDG	1SS400CS	RD	G	Green compound

**DIMENSIONS**

SOD-923F



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	0.55	0.65	0.022	0.026
B	0.90	1.10	0.035	0.043
C	0.15	0.27	0.006	0.011
D	0.75	0.85	0.030	0.033
E	0.34	0.43	0.013	0.017
F	-	0.15	-	0.006

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**Not Recommended**

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