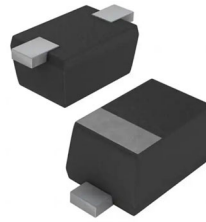


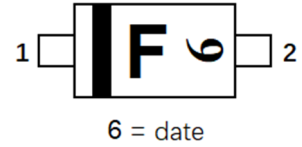
Features

- * Low forward voltage drop
- * Low reverse current
- * RoHS Compliant
- * REACH & SVHC Compliant
- * Halogen Compliant
- * SOD-923 Package

Package and Marking Diagram



SOD-923



Top view

Circuit Diagram



Ordering Information

Part Number	Packaging	Reel Size
RB521C30-2/TR-CN	8000/Tape & Reel	7 inch

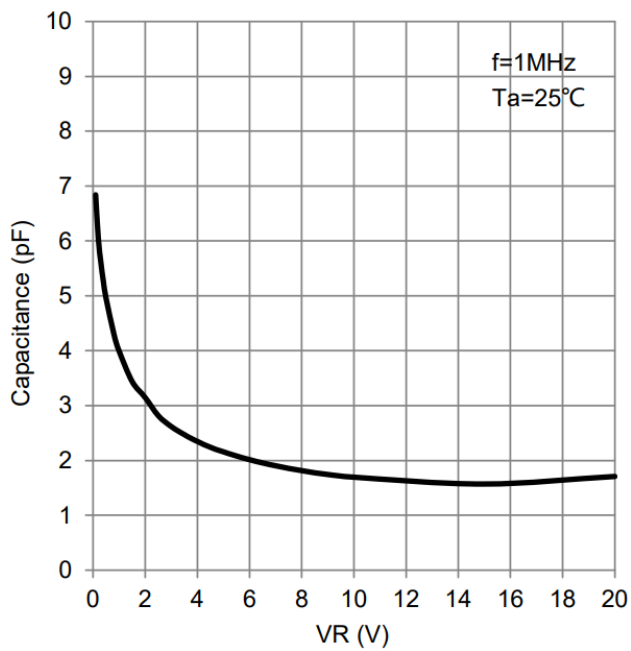
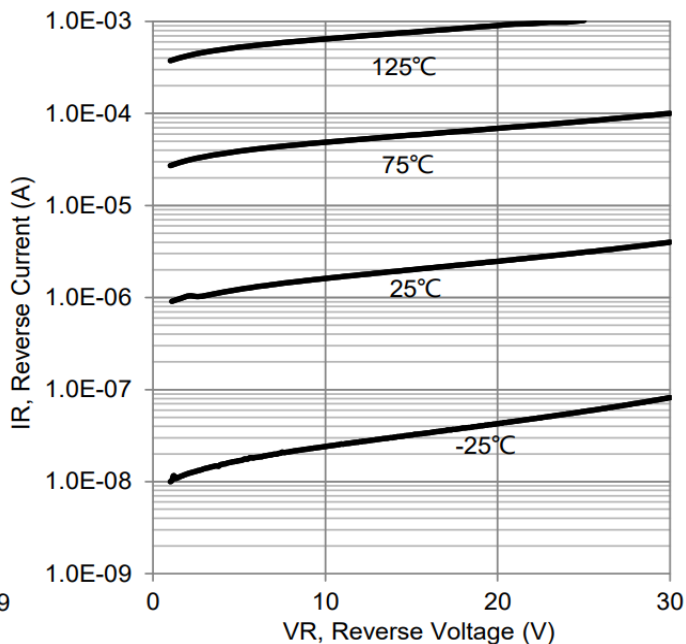
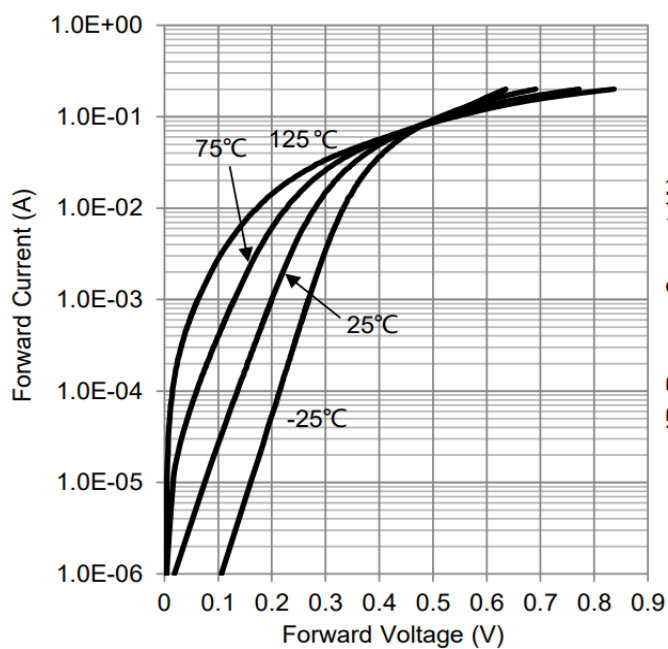
Absolute Maximum Ratings ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Repetitive peak reverse voltage	V_{RRM}	30	V
DC blocking voltage	V_R	30	V
Continuous forward current	I_O	100	mA
Non-repetitive peak forward current @ $t=8.3\text{ms}$	I_{FSM}	500	mA
Power dissipation	P_D	100	mW
Junction temperature	T_J	-40 to +125	$^{\circ}\text{C}$
Storage temperature	T_{STG}	-55 to +150	$^{\circ}\text{C}$

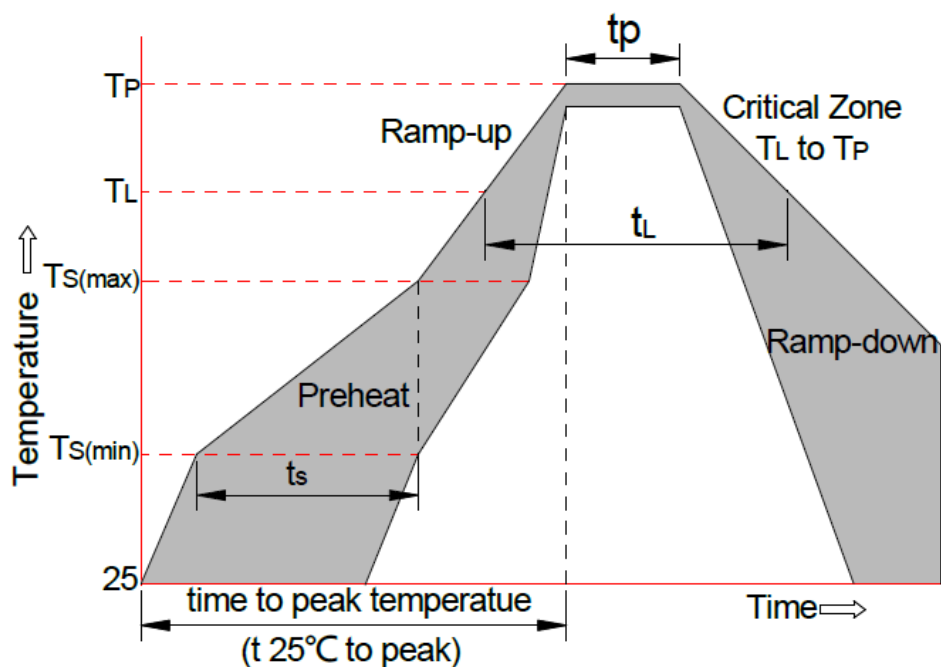
Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse current	I_R	$V_R = 10\text{V}$			10	μA
Forward voltage	V_F	$I_F = 10\text{mA}$			0.35	V
Forward voltage	V_F	$I_F = 20\text{mA}$			0.40	V

Typical Performance Characteristics ($T_A=25^\circ\text{C}$ unless otherwise Specified)

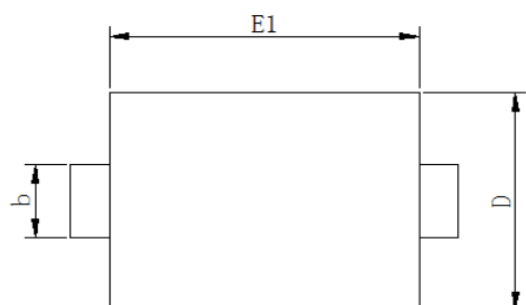


Soldering Parameters

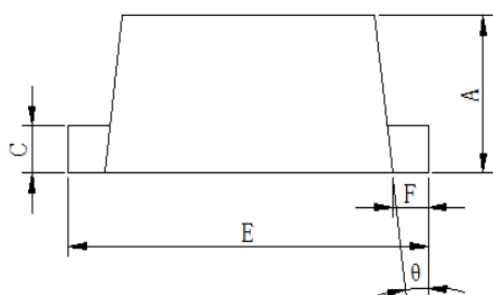


Reflow Conditions		Pb-Free Assembly
Pre-heat	-Temperature Min ($T_{S (min)}$)	+150°C
	-Temperature Max ($T_{S (max)}$)	+200°C
	-Time (Min to Max) (t_s)	60-180 secs
Average ramp up rate(Liquid us Temp (T_L) to peak)		3°C/sec. Max
$T_{S (max)}$ to T_L -Ramp-up Rate		3°C/sec. Max
Reflow	-Temperature (T_L) (Liquid us)	+217°C
	-Temperature (t_L)	60-150 secs
Peak Temp (T_p)		+260(+0/-5)°C
Time within 5°C of actual Peak Temp (t_p)		30 secs. Max
Ramp-down Rate		6 °C/secs. Max
Time 25°C to Peak Temp (T_P)		8 min. Max
Do not exceed		+260°C

SOD-923 Package Outline Drawing



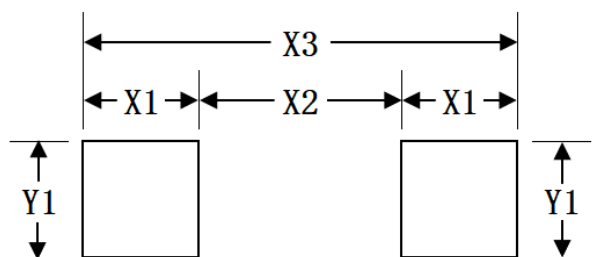
TOP VIEW



SIDE VIEW

SYM	DIMENSIONS					
	MILLIMETERS			INCHES		
	Min	Typ	Max	Min	Typ	Max
A	0.36	0.40	0.44	0.0142	0.0157	0.0173
b	0.15	0.20	0.25	0.0059	0.0079	0.0098
c	0.07	0.12	0.17	0.0028	0.0047	0.0067
D	0.55	0.60	0.65	0.0217	0.0236	0.0256
E	0.95	1.00	1.10	0.0374	0.0394	0.0433
E1	0.75	0.80	0.85	0.0295	0.0315	0.0335
F	0.05	0.10	0.15	0.0020	0.0039	0.0059
θ	0	2°	5°	0	2°	5°

Suggested Land Pattern



SYM	DIMENSIONS	
	MILLIMETERS	INCHES
X1	0.40	0.016
X2	0.70	0.028
X3	1.50	0.059
Y1	0.40	0.016

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