

SOD-923 Plastic-Encapsulate TDiodes

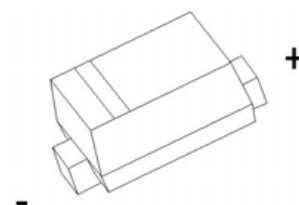
RB521CS-30 Schottky barrier Diode

SOD-923

RoHS
COMPLIANT

Features

- Small surface mounting type
- High reliability



Equivalent circuit



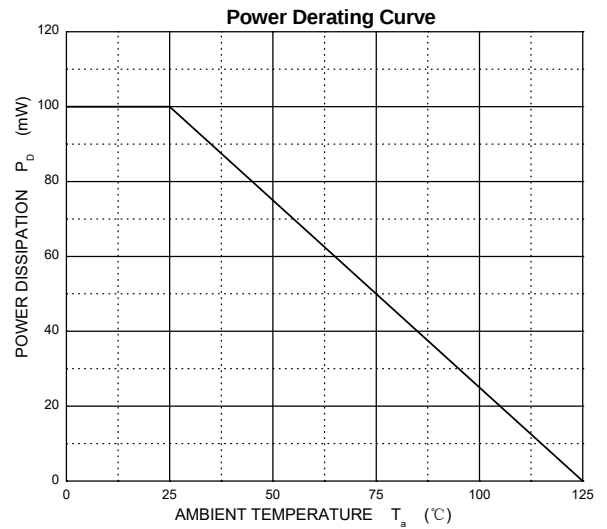
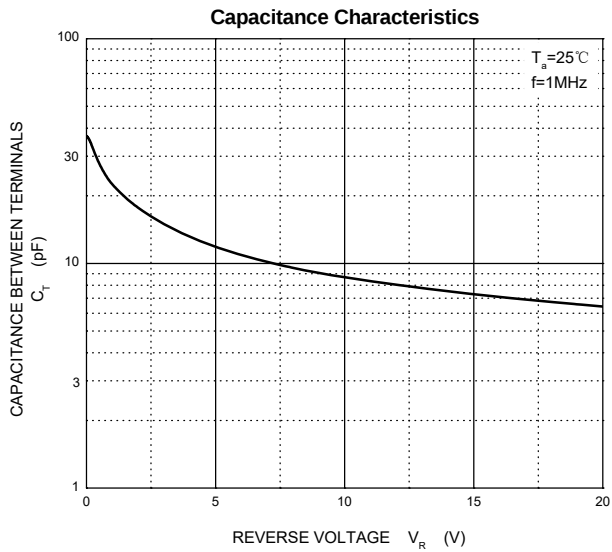
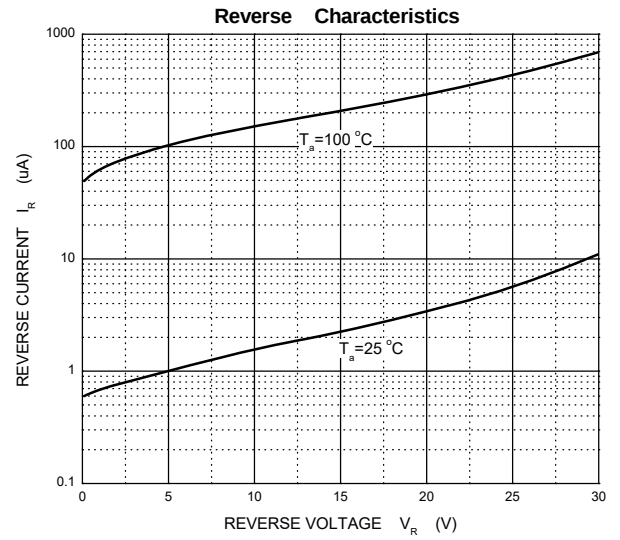
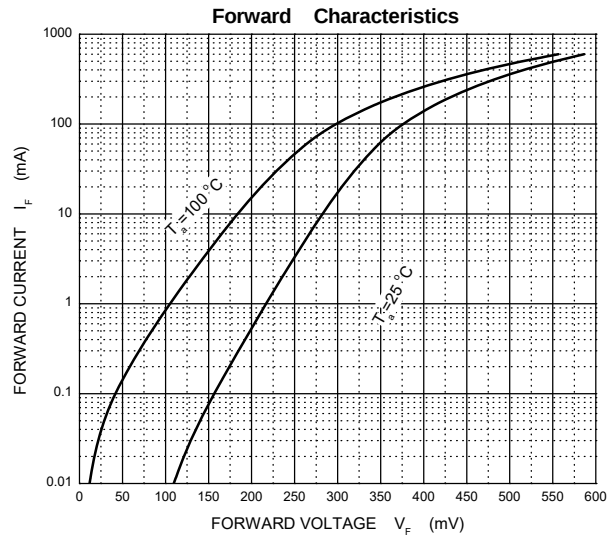
Absolute Maximum Ratings ($T_a=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Limit	Unit
DC reverse voltage	V_R	30	V
Mean rectifying current	I_O	200	mA
Non-repetitive Peak forward surge current @ $t=8.3\text{ms}$	I_{FSM}	1	A
Power dissipation	P_D	100	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	1000	$^\circ\text{C/W}$
Operating Junction Temperature Range	T_j	$-40 \sim +125$	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-55 \sim +150$	$^\circ\text{C}$

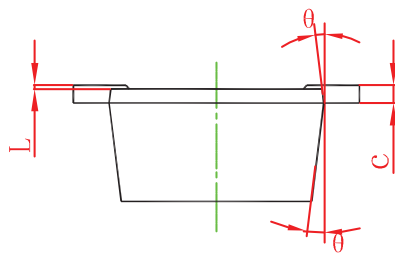
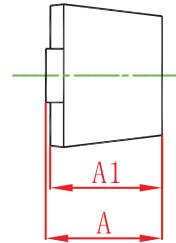
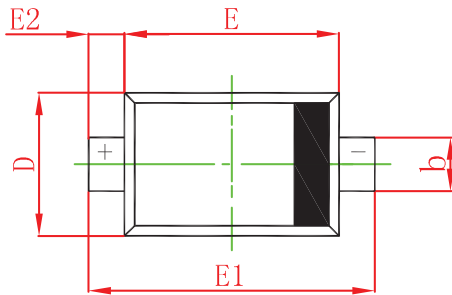
Electrical Ratings @ $T_a=25^\circ\text{C}$

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V_{F1}			0.35	V	$I_F=10\text{mA}$
	V_{F2}			0.5	V	$I_F=200\text{mA}$
Reverse current	I_R			10	μA	$V_R=10\text{V}$

Typical Characteristics

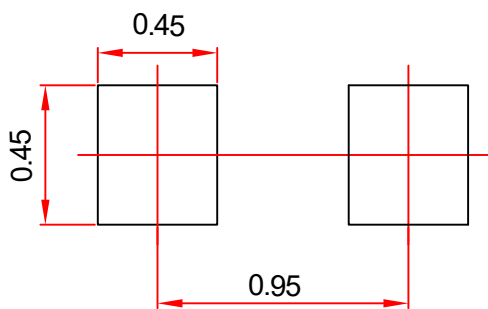


SOD-923 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.360	0.450	0.014	0.018
A1	0.350	0.420	0.011	0.013
b	0.150	0.300	0.006	0.012
c	0.006	0.200	0.002	0.008
D	0.550	0.650	0.022	0.026
E	0.700	0.900	0.028	0.035
E1	0.900	1.100	0.035	0.043
E2	0.200 REF		0.008 REF	
L	0.010	0.070	0.001	0.003
θ	7° REF		7° REF	

SOD-923 Suggested Pad Layout



Note:

1. Controlling dimension: in/millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.