

Schottky Barrier Diode

Features

- 100mA Average rectified forward current
- Low forward voltage
- Low leakage current
- Small package SOD-923

Applications

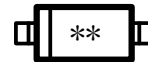
- Low Current Rectification



SOD-923



Circuit



Marking

Absolute maximum ratings

Parameter	Symbol	Value	Unit
Reverse voltage (DC)	V_R	30	V
Average rectified forward current	I_O	100	mA
Peak forward surge current (8.3ms single pulse)	I_{FSM}	0.5	A
Junction temperature	T_J	150	°C
Operating temperature	T_{opr}	-40 ~ +85	°C
Storage temperature	T_{stg}	-40 ~ +150	°C

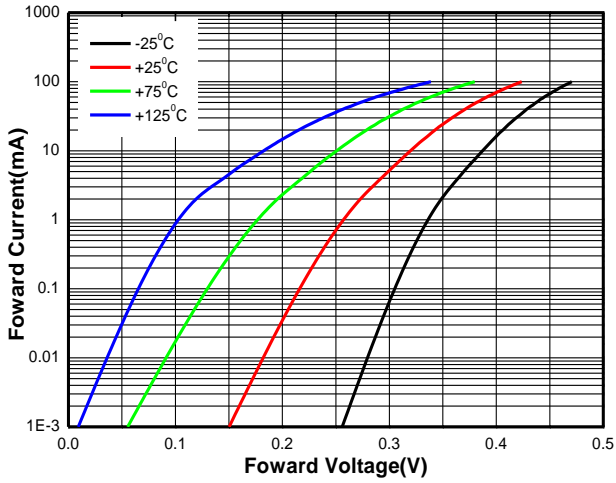
Electronics characteristics ($T_A=25^\circ\text{C}$)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Reverse Voltage	V_R	$I_R=100\mu\text{A}$	30			V
Forward voltage	V_F	$I_F=10\text{mA}$			0.35	V
Reverse current	I_R	$V_R=10\text{V}$			10	μA
Junction capacitance	C_J	$V_R=5\text{V}, f=1\text{MHz}$		6.6		pF

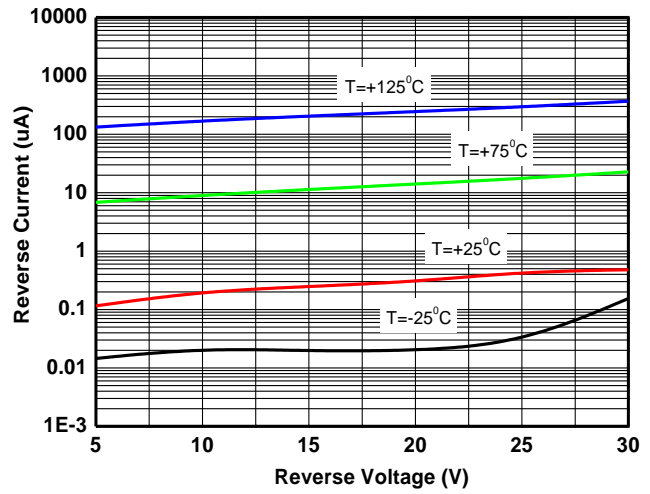
Order Informations

Device	Package	Marking	Shipping
RB521C30-2/TR	SOD-923	1D	8K/Reel&Tape

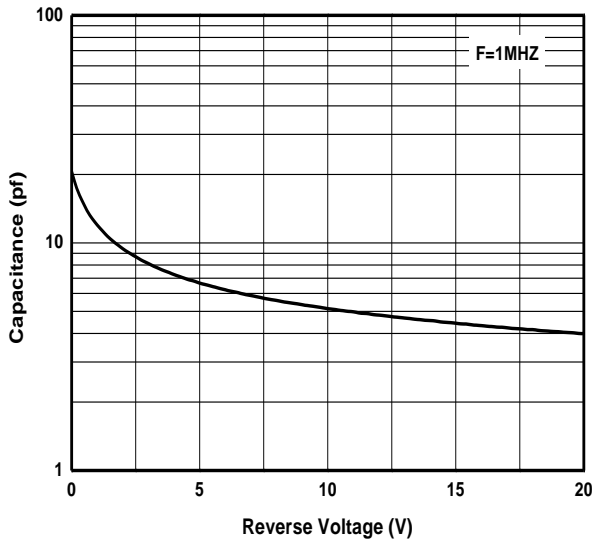
Typical characteristics (Ta=25°C, unless otherwise noted)



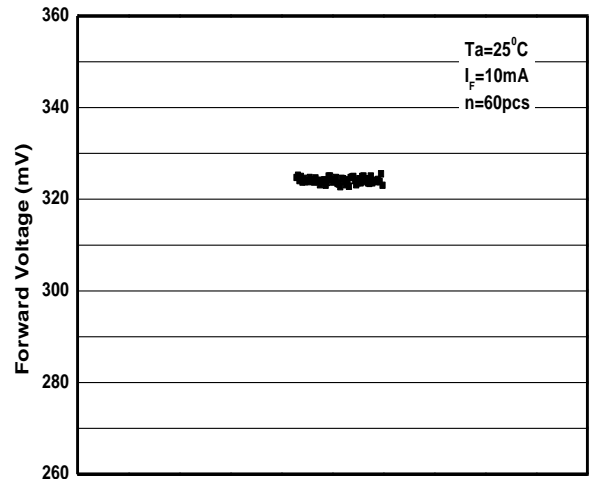
Forward voltage vs. Forward current



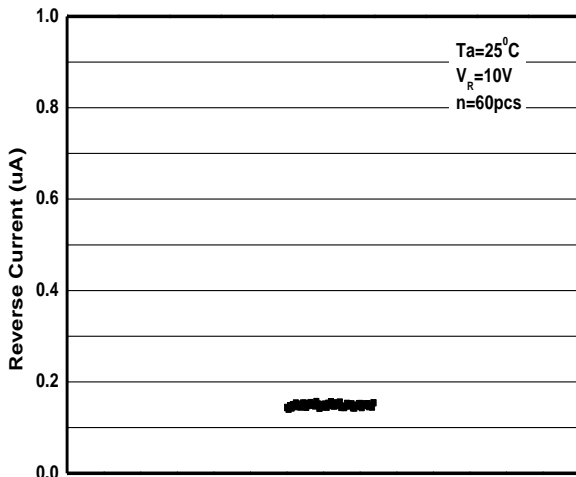
Reverse current vs. Reverse voltage



Junction capacitance vs. Reverse voltage



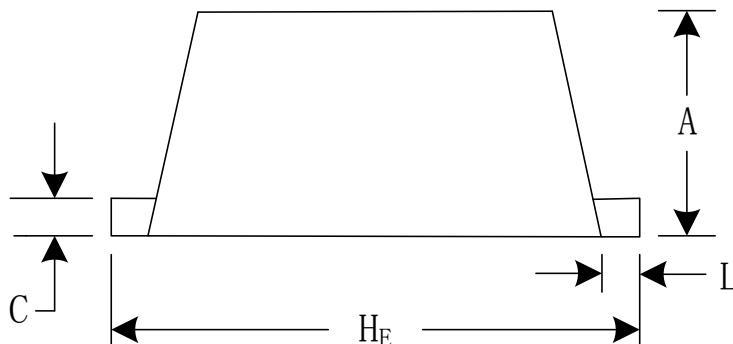
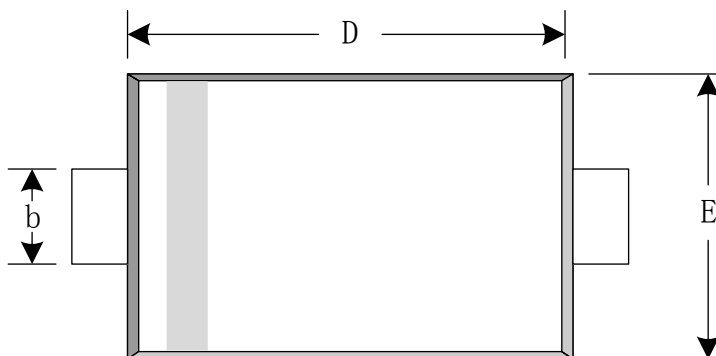
V_F Dispersion Map



I_R Dispersion Map

Package outline dimensions

SOD-923



Symbol	Dimensions in millimeter		
	Min.	Typ.	Max.
A	0.36	0.40	0.43
b	0.15	0.20	0.25
C	0.07	0.12	0.17
D	0.75	0.80	0.85
E	0.55	0.60	0.65
H _E	0.95	1.00	1.05
L	0.05	0.10	0.15