

Schottky Barrier Diode

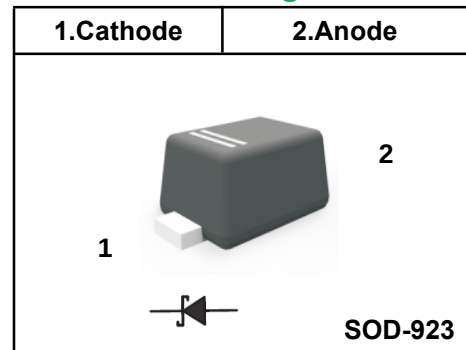
FEATURES

- ♦Extremely Small Surface Mount Package
- ♦200mA Average Rectified Forward Current
- ♦Extremely Fast Switching Speed
- ♦Low Forward Voltage
- ♦High Reliability

APPLICATIONS

- ♦High Speed Switching
- ♦Low Current Rectification
- ♦Inverse Polarity Protection

Pinning



Marking Code

RB521CS-30	F
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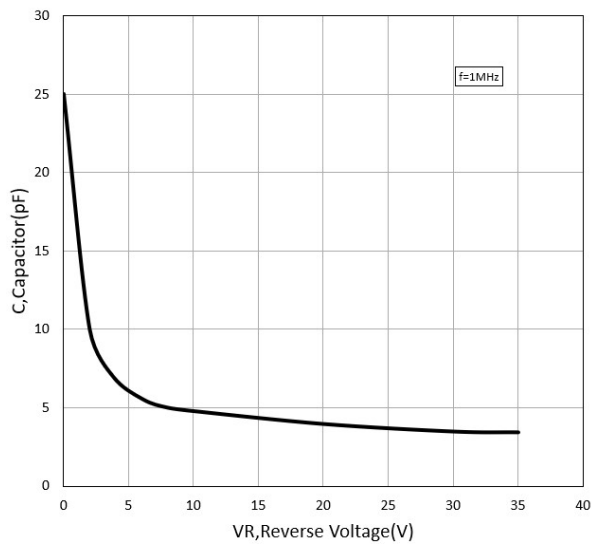
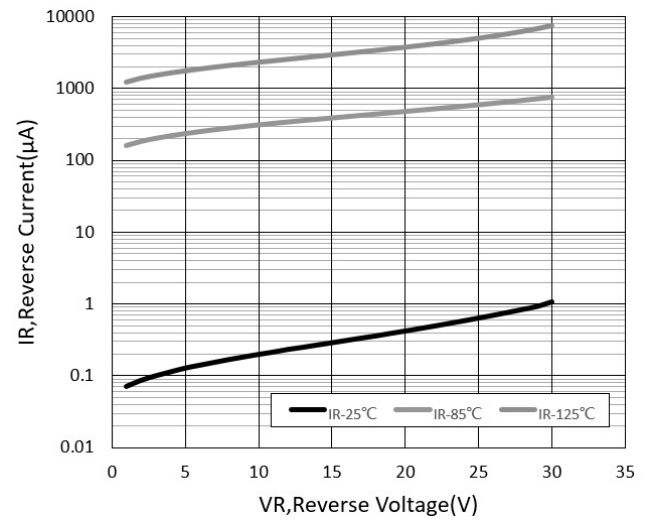
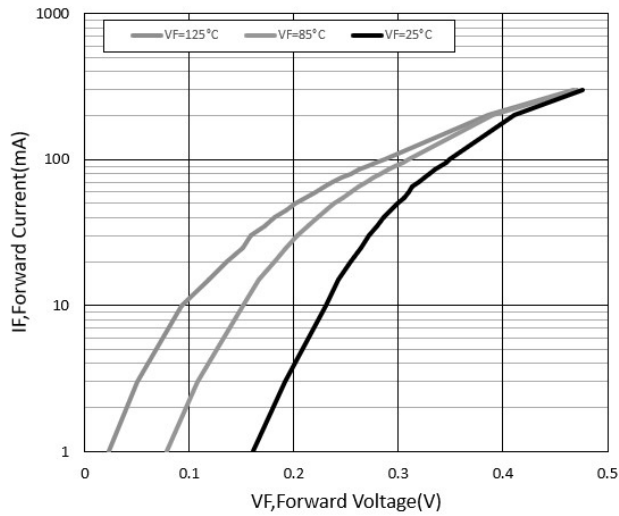
Limiting Values($T_A = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)

Characteristics	Symbols	Value	Units
Reverse Voltage(Repetitive peak)	V_{RM}	30	V
Reverse Voltage(DC)	V_R	30	V
Average Rectified Forward Current	I_O	200	mA
Peak Forward Surge Current	I_{FSM}	500	mA
Junction Temperature	T_j	125	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	-55~125	$^{\circ}\text{C}$

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

Characteristics	Test Condition	Symbols	Min	Typ	Max	Units
Reverse Current	$V_R = 10\text{V}$	I_R	-	-	30	μA
Breakdown Voltage	$I_T = 500\text{ }\mu\text{A}$	V_{BR}	30	-	-	V
Forward Voltage	$I_F = 10\text{mA}$	V_F	-	-	0.35	V
	$I_F = 20\text{mA}$		-	-	0.38	V
	$I_F = 100\text{mA}$		-	-	0.4	V
	$I_F = 200\text{mA}$		-	-	0.5	V

Typical Characteristics



Ordering information

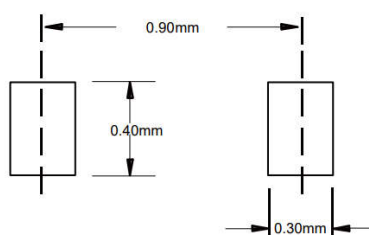
Package	Packing Description	Packing Quantity
SOD-923	Tape/Reel, 7" reel	10000PCS/Reel 400000PCS/Carton

Package Dimensions

SOD-923

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.95	1.05	37	41
B	0.75	0.85	30	33
C	0.55	0.65	22	26
D	0.36	0.43	14	17
E	0.15	0.25	6	10
F	0.07	0.17	3	7

The recommended mounting pad size



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