

SCHOTTKY BARRIER DIODE

General description

General Application Schottky barrier rectifier, encapsulated in a SOD923 leadless ultra small Surface-Mounted Device (SMD) plastic package.

Features and benefits

- Average forward current: $I_{F(AV)} \leq 100 \text{ mA}$
- Reverse voltage: $V_R \leq 30 \text{ V}$
- Low forward voltage: $V_F \leq 350 \text{ mV @10mA}$
- Low reverse current: $I_R \leq 10 \text{ } \mu\text{A}$
- Leadless ultra small SMD plastic package
- We declare that the material of product compliance with RoHS requirements and Halogen Free

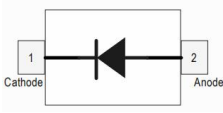
Application information

- Low voltage rectification
- High efficiency DC-to-DC conversion
- Switch Mode Power Supply (SMPS)
- Reverse polarity protection
- Low power consumption applications

Ordering information

Device	Package	Marking	Packaging
RB521CS-30	SOD923	F	8000/Tape & Reel

Schematic & Pin configuration

Simplified outline	Graphic symbol
	

Maximum Ratings (T_A = 25 °C, unless otherwise specified)

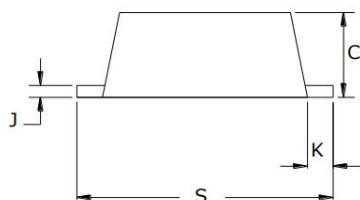
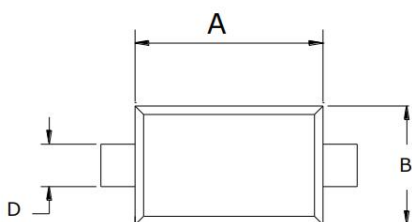
Parameter	Symbol	Value	Unit
DC reverse voltage	V _R	30	V
Average rectifier forward current	I _O	100	mA
Forward current surge peak(60Hz · 1cyc)	I _{FSM}	500	mA
Junction temperature	T _j	125	°C
Storage temperature	T _{stg}	-40 to +125	°C

Electrical Characteristics (T_A = 25 °C, unless otherwise specified)

Characteristic	Symbol	Min	Typ	Max	Unit	Condition
Forward voltage	V _F	--	--	0.35 0.40	V	(I _F =10mA) (I _F =20mA)
Reverse current	I _R	--	--	10	uA	V _R =10V

Package Outline Dimensions

SOD923



SYMBOL	Dimensions In Millimet	
	MIN	MAX
A	0.74	0.86
B	0.54	0.66
C	0.35	0.45
D	0.14	0.26
K	0.04	0.16
S	0.95	1.10