

## RB520SM5-30

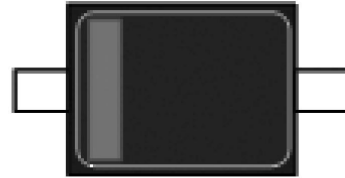
### Schottky Diode

#### FEATURE

- Low current Rectification
- Low reverse current
- SOD523 Thin SMD package
- RoHS compliant / Green EMC
- Matte Tin (Sn) Lead finish
- Cathode Band / Device marking

**MARKING: B/5J**

SOD-523



Schematic diagram



#### ABSOLUTE MAXIMUM RATINGS (T<sub>a</sub>=25°C unless otherwise noted)

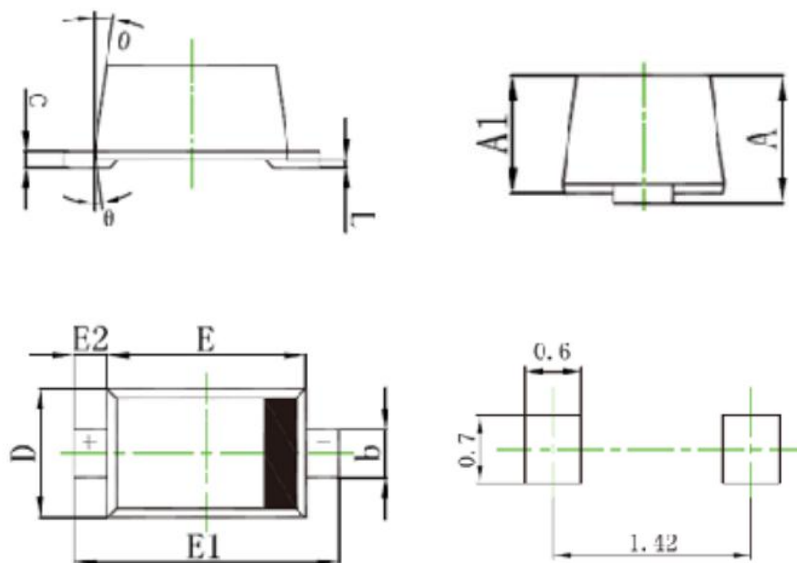
Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	30	V
DC Blocking Voltage	V <sub>R</sub>	30	V
Continuous Forward Current	I <sub>O</sub>	200	mA
Non-Repetitive Peak Forward Current *1	I <sub>FSM</sub>	1	A
Power Dissipation	P <sub>D</sub>	200	mW
Junction Temperature	T <sub>J</sub>	125	°C
Storage Temperature	T <sub>STG</sub>	-55 to +125	°C

\*1 8.3 ms single half sine-wave

#### ELECTRICAL CHARACTERISTICS(T<sub>a</sub>=25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Breakdown Voltage	BV <sub>R</sub>	I <sub>R</sub> = 100μA	30			V
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 10mA			0.40	V
		I <sub>F</sub> = 200mA			0.40	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 10V			1	μA

**SOD-523 Package Outline Dimensions**



Symbol	Dimensions In Millimeters		
	Min	Typ	Max
A	0.51	-	0.77
A1	0.50	-	0.70
b	0.25	-	0.35
c	0.08	-	0.15
D	0.75	-	0.85
E	1.10	-	1.30
E1	1.50	-	1.70
E2	0.20REF.		
L	0.01	-	0.07
$\theta$	7° REF.		