

RB520SM9-30

RB520SM9-30 Schottky Barrier Diode

General description

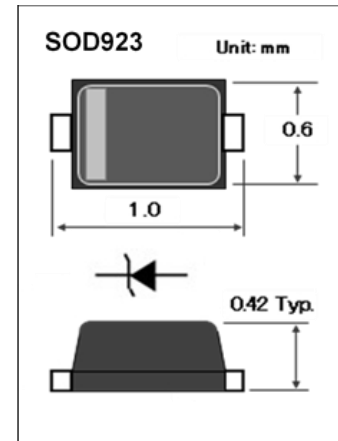
Schottky Barrier Diode in a SOD-923 Plastic Package.

FEATURES

- Low current Rectification
- Low reverse current
- SOD923 Thin SMD package
- RoHS compliant / Green EMC
- Matte Tin (Sn) Lead finish
- Cathode Band / Device marking

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
VRRM	Repetitive Peak Reverse Voltage	30	V
VR	DC Blocking Voltage	30	V
IO	Continuous Forward Current	200	mA
IFSM	Non-Repetitive Peak Forward Current *1	1	A
PD	Power Dissipation	200	mW
TJ	Junction Temperature	125	°C
TSTG	Storage Temperature	-55 to +125	°C



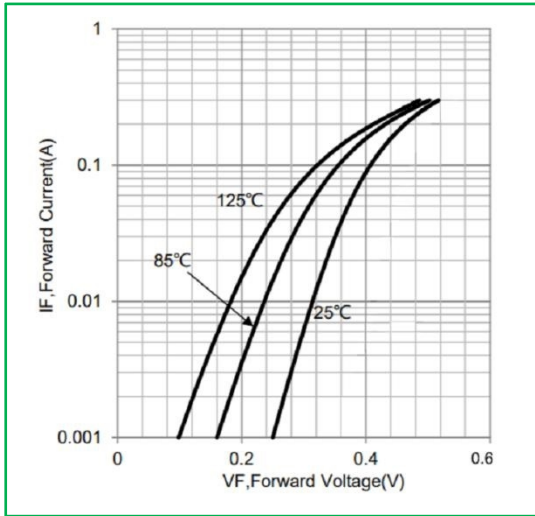
Device Marking Code:

Device Type	Device Marking
RB520SM9-30	B or F

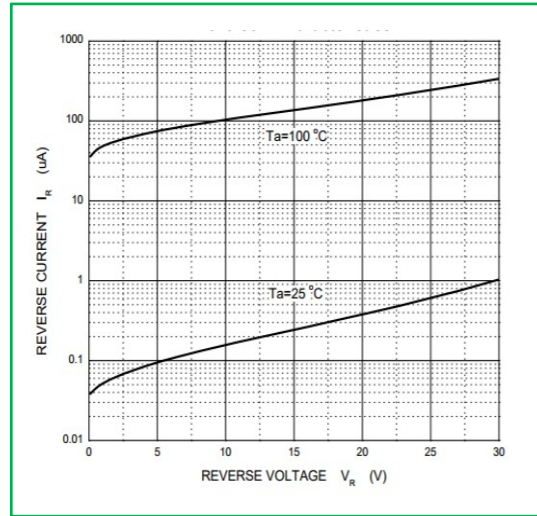
Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter	Conditions	Min	Max	Units
VF	Forward Voltage	IF = 10mA		0.40	V
		IF = 200mA		0.60	V
BVR	Breakdown Voltage	IR = 100µA	30		V
IR	Reverse Current	VR = 10V		1	µA

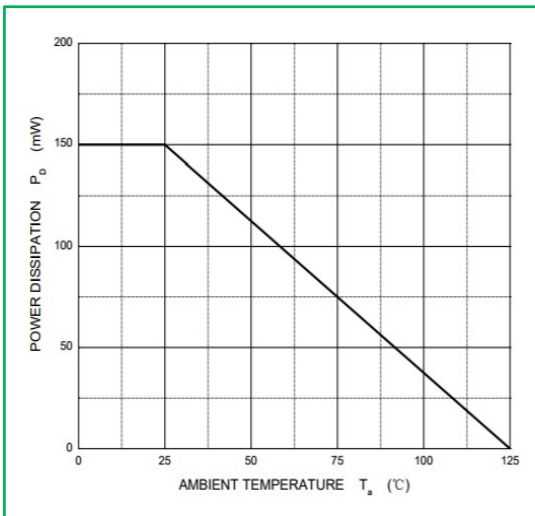
Typical Characteristics



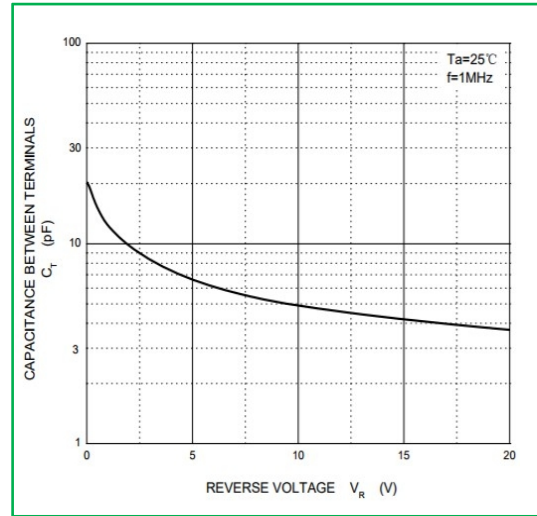
Forward Characteristics



Reverse Characteristics



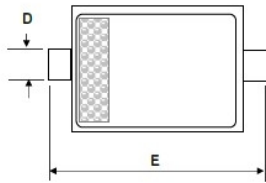
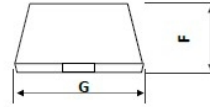
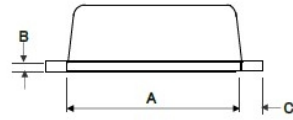
Power Derating Curve



CT vs VR

Package Dimensions

Package outline : SOD923



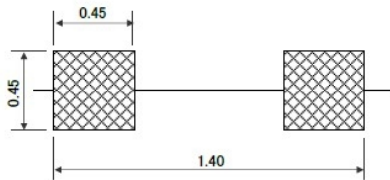
SOD923 * Package Outline

Dimensions

Unit	A	B	C	D	E	F	G
Max.	0.90	0.20	0.15	0.30	1.10	0.45	0.65
Min.	0.70	0.05	0.05	0.15	0.90	0.39	0.55

Note:

1. Halogen free,EMC
2. Pb free solder
3. Lead thickness includes solder plating
4. Lead frame: Cu
5. Other Tolerance: ± 0.05
6. Dimensions are exclusive of Burrs,Mold Flash and Tie Bar extrusions
7. Unit: mm



Land Pattern Recommendation

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