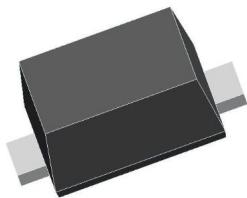


## RB521M9 Schottky Barrier Diode



SOD-923

### Features

- Low current rectification
- Low forward voltage
- SOD923 Micro SMD package
- RoHS compliant
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

### Circuit Diagram



### Mechanical Characteristics

- Case: SOD-923, Molded plastic
- Matte Tin (Sn) Lead finish
- Polarity: Cathode Band
- Weight: 0.001 grams(approx)

### Maximum Ratings @ $T_A=25^\circ\text{C}$ unless otherwise specified

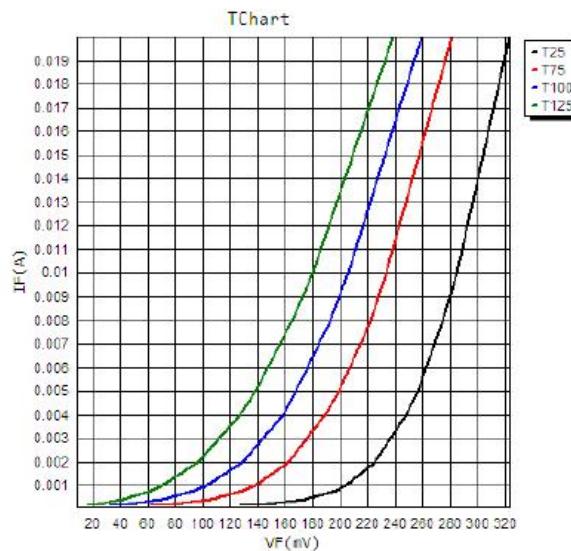
Characteristic	Symbol	Limits		Unit
Non- Repetitive Peak Reverse Voltage	$V_{RM}$	30		V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$V_{RRM}$ $V_{RWM}$ $V_R$	30		V
Continuous Forward Current	$I_o$	100		mA
Non-Repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	$I_{FSM}$	0.5		A
Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +125		°C

### Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

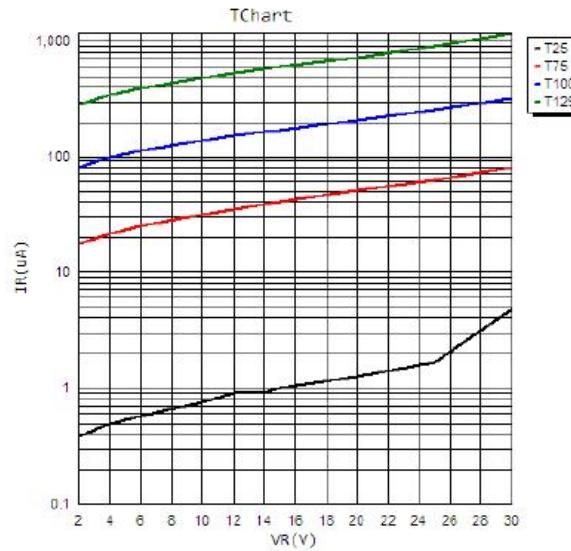
Characteristic	Symbol	Min	Max	Units	Test Condition
Breakdown Voltage*	$V_{BR}$	30	-	V	@ $I_R=100\mu\text{A}$
Forward Voltage*	$V_{FM}$	-	0.35 0.40	V	@ $I_F=10\text{mA}$ @ $I_F=20\text{mA}$
Reverse Leakage Current*	$I_{RM}$	-	10 50	$\mu\text{A}$	@ $V_R=10\text{V}$ @ $V_R=30\text{V}$

\* Pulse width < 300  $\mu\text{s}$ , duty cycle < 2%

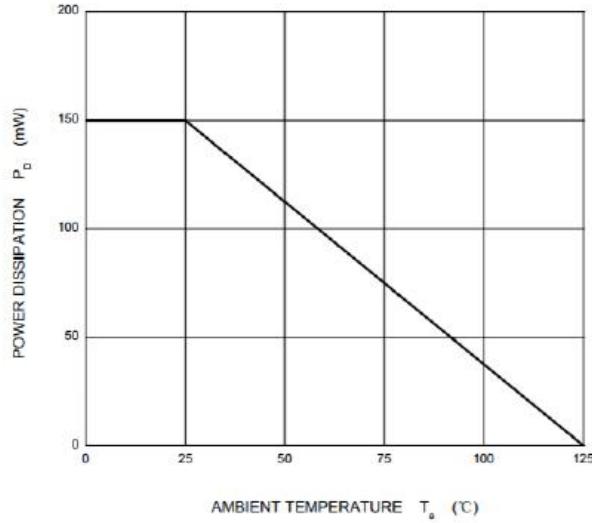
## Ratings and Characteristics Curves



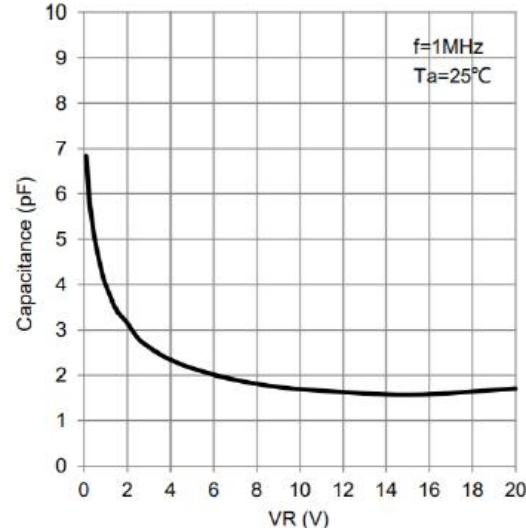
Forward Characteristics



Reverse Characteristics

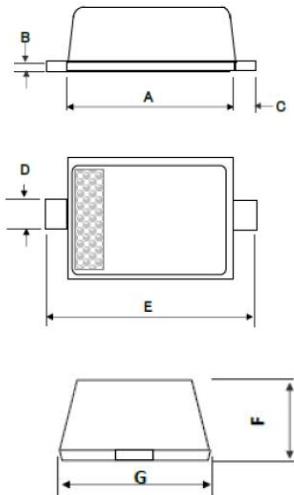


Power Derating Curve



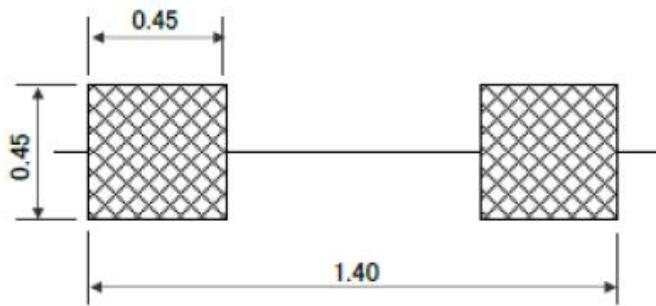
CT vs VR

## Mechanical Dimensions SOD-923



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

## Land Pattern Recommendation SOD-923 (Millimeters)



Tolerance:  $\pm 0.05\text{mm}$

## Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch
RB521M9	SOD-923	8000pcs / reel	8mm	2mm

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel Packaging specification.

## Marking Diagram



C5 =Marking code

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