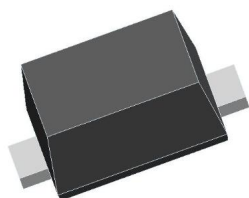


RB521M9 Schottky Barrier Diode



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°C unless otherwise specified

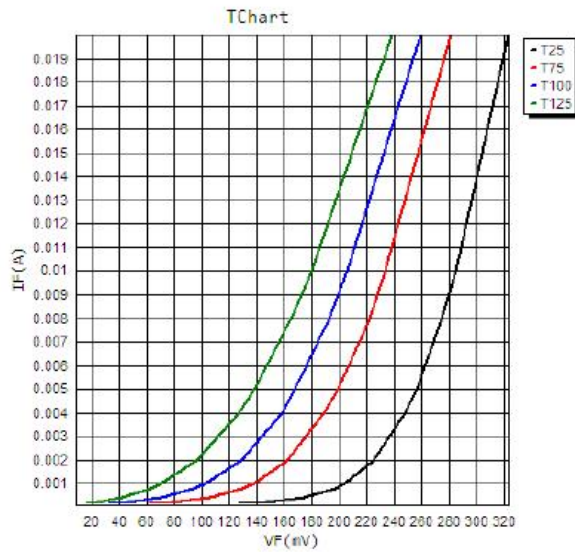
Characteristic	Symbol	Limits	Unit
Non- Repetitive Peak Reverse Voltage	V _{RM}	30	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	V
Continuous Forward Current	I _O	100	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	0.5	A
Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +125	°C

Electrical Characteristics @T_A=25°C unless otherwise specified

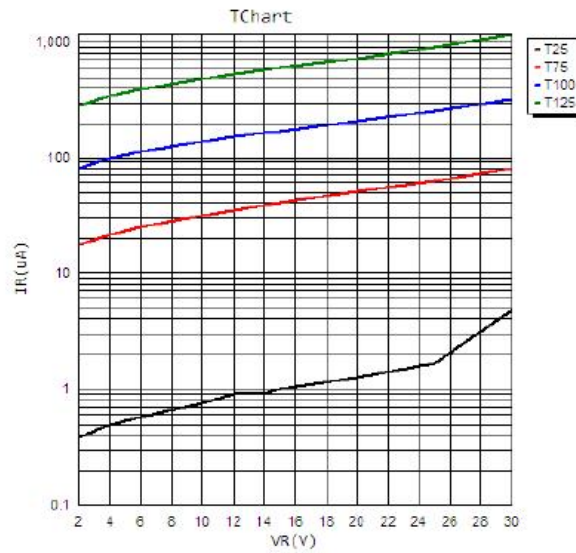
Characteristic	Symbol	Min	Max	Units	Test Condition
Breakdown Voltage*	V _{BR}	30	-	V	@I _R =100uA
Forward Voltage*	V _{FM}	-	0.35 0.40	V	@I _F =10mA @I _F =20mA
Reverse Leakage Current*	I _{RM}	-	10 50	uA	@V _R =10V @V _R =30V

* Pulse width < 300 μs, duty cycle < 2%

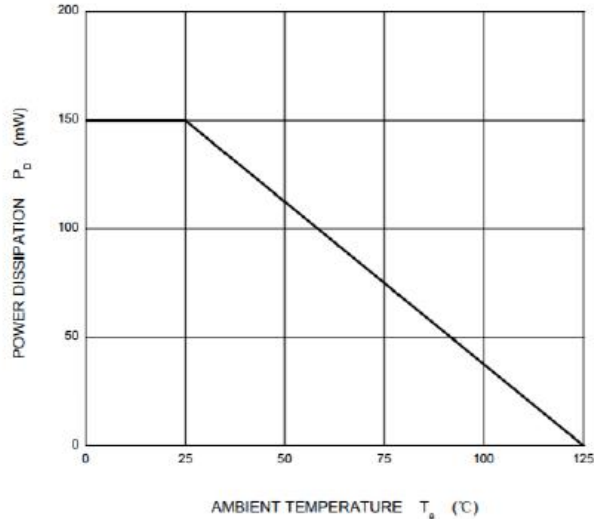
Ratings and Characteristics Curves



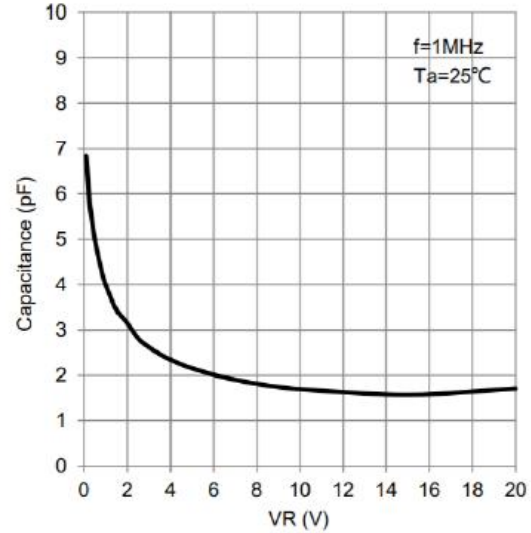
Forward Characteristics



Reverse Characteristics

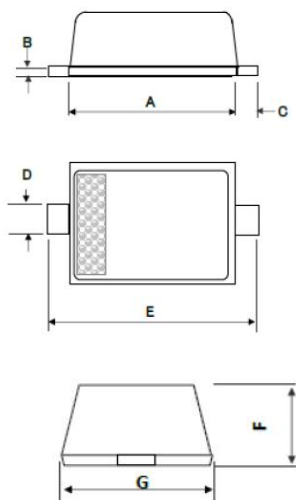


Power Derating Curve



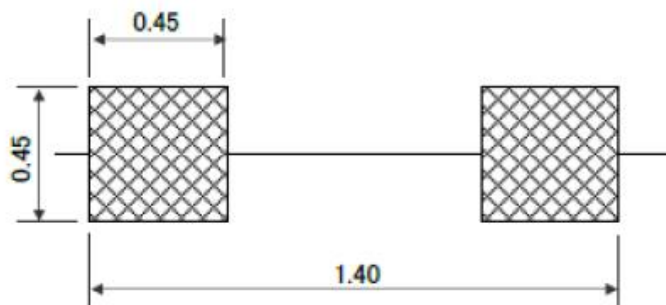
CT vs VR

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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