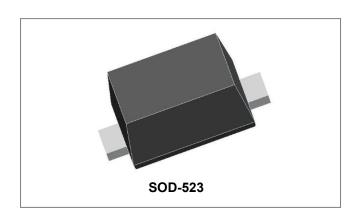


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RB521M5 Schottky Barrier Diode



Features

- Low current rectification
- Low forward voltage
- SOD523 Micro SMD package
- RoHS compliant
- "-A" suffix is for Automotive qualified
- Terminals finish: 100% Pure Tin
- This is a Halogen Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Characteristics

Case: SOD-523, Molded plastic
 Matte Tin (Sn) Lead finish
 Polarity: Cathode Band

Weight: 0.002 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	lo	100	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	0.5	Α
Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +125	°C

Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Units	Test Condition
Breakdown Voltage*	V_{BR}	30	-	٧	@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 μ s, duty cycle < 2%

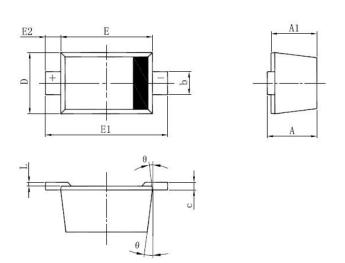
- China Germany Korea Singapore United States
 - http://www.smc-diodes.com
 sales@ smc-diodes.com



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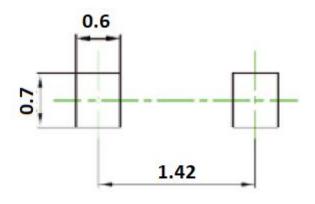


Mechanical Dimensions SOD-523



SYMBOL	Millin	neters	Inches		
STINIBUL	Min.	Max.	Min.	Max.	
Α	0.510	0.770	0.020	0.031	
A 1	0.500	0.700	0.020	0.028	
b	0.250	0.350	0.010	0.014	
С	0.080	0.200	0.003	0.008	
D	0.700	0.850	0.028	0.033	
E	1.100	1.300	0.043	0.051	
E1	1.500	1.700	0.059	0.067	
E2	0.200 REF		0.008 REF.		
L	0.010	0.070	0.001	0.003	
θ	7° REF		7° REF		

Land Pattern Recommendation SOD-523 (Millimeters)



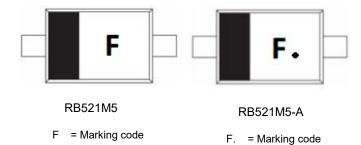
Tolerance: ±0.05mm

Ordering Information

Device		Package	Shipping	
RB	521M5TR	SOD-523	8000pcs / reel	
RB	521M5	SOD-523	8000pcs / reel	

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

Marking Diagram



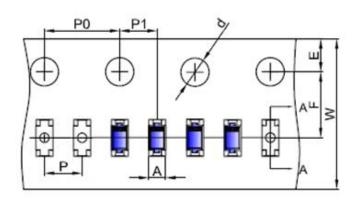
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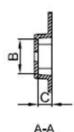


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Carrier Tape & Reel Specification SOD-523





SYMBOL	Millimeters			
STWBUL	Min.	Max.		
Α	0.85	0.95		
В	1.89	1.99		
С	0.68	0.78		
d	1.40	1.60		
E	1.65	1.85		
F	3.40	3.60		
Р	1.90	2.10		
P0	3.90	4.10		
P1	1.90	2.10		
W	7.90	8.30		

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