

# RB521S-30

## SURFACE MOUNT SCHOTTKY BARRIER DIODE

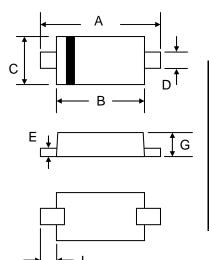


## Features

- Low Turn-On Voltage
- Fast Switching Speed
- PN Junction Guard Ring for Transient and ESD Protection
- For General Purpose Switching Applications
- Plastic Material UL Recognition Flammability Classification 94V-0

## **Mechanical Data**

- Case: SOD-523, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.002 grams (approx.)
- Marking: C
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



SOD-523				
Dim	Min	Max		
Α	1.50	1.70		
В	1.10	1.30		
С	0.70	0.90		
D	0.30 Typical			
E	0.10 Typical			
G	0.50	0.70		
L	0.15	0.25		
All Dimensions in mm				

## **Maximum Ratings** @T<sub>A</sub>=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	30	V
Average Rectified Output Current	lo	200	mA
Non-Repetitive Peak Forward Surge Current, 60Hz	IFSM	1.0	А
Operating and Storage Temperature Range	TJ, TSTG	-40 to +125	°C

## **Thermal Characteristics**

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	PD	200	mW
Thermal Resistance, Junction to Ambient (Note 1)	R ja	635	°C/W

Note: 1. Mounted on FR-4 PC board with minimum recommended pad layout.

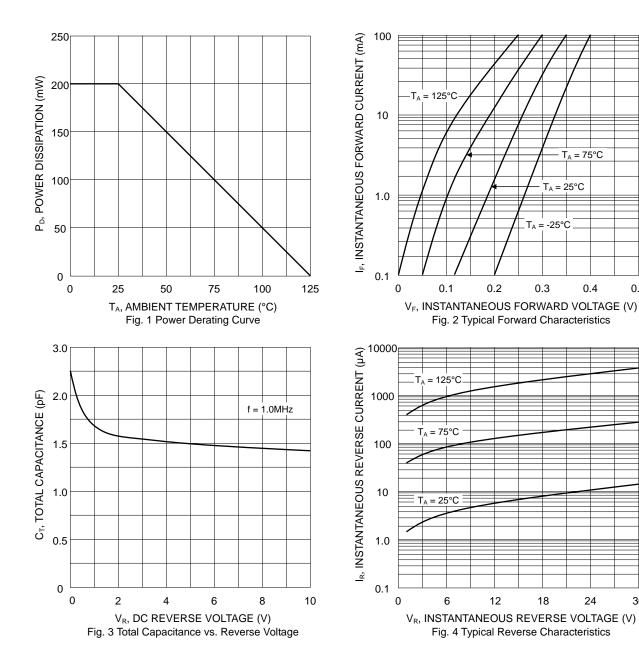


0.5

30

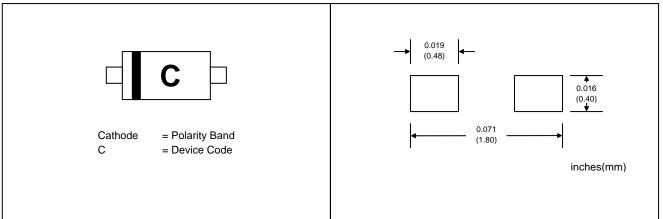
## Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

Characteristic	Symbol	Min.	Тур.	Max.	Unit	
Forward Voltage Drop	@ IF = 200mA	Vf			0.5	V
Reverse Leakage Current	@ VR = 10V	lr			30	μA



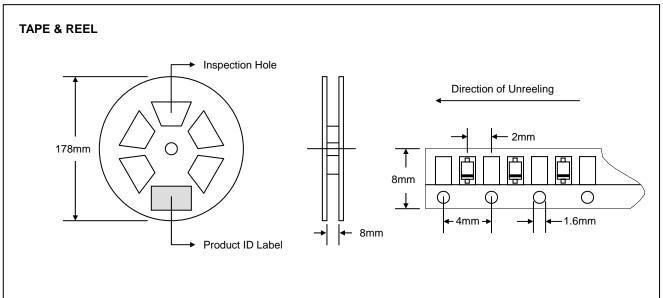


## **MARKING INFORMATION**



**RECOMMENDED FOOTPRINT** 

## **PACKAGING INFORMATION**



Reel Diameter	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight
(mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
178	3,000	187 x 187 x 65	15,000	390 x 240 x 420	150,000	7.0

**Note:** 1. Anti-static plastic reel, white, water clear or blue color. Inspection hole might be varied in different alignment. 2. Components are packed in accordance with EIA standard 481-1 and 481-2.

- 3. Components are dispensed in every other cavity of the tape.



### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
RB521S-30-T1	SOD-523	3000/Tape & Reel

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

2. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, RB521S-30-T1-LF.

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