

**Small Signal Schottky diode**

# RB521S-30C2

**Description**

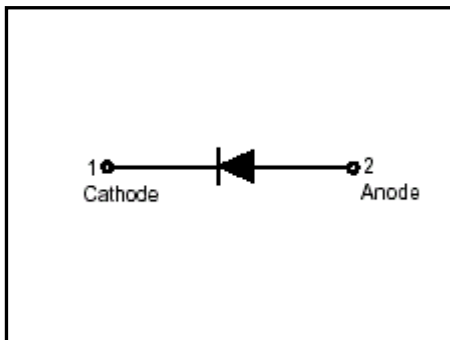
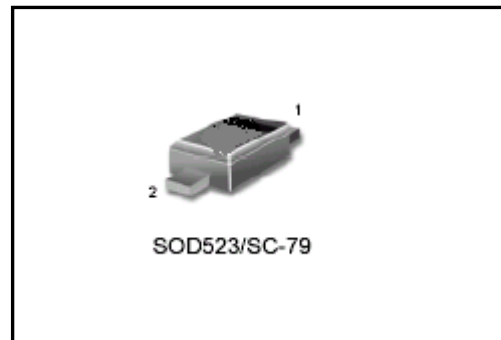
Planar silicon Schottky barrier diode encapsulated in a SOD-523 plastic SMD package.

**Features**

- Extremely small surface mounting type.(SC-79/SOD523)
- $I_o=200\text{mA}$  guaranteed despite the size.
- Low  $V_F$ .( $V_F=0.4\text{V}$  typ. at  $200\text{mA}$ )

**Applications**

Low current rectification and high speed switching

**Symbol****Outline****Absolute Maximum Ratings**

- Maximum Temperatures
  - Storage Temperature  $T_{stg}$  ..... -45~+125°C
  - Junction Temperature  $T_j$  ..... +125°C
- Maximum Voltages and Currents ( $T_a=25^\circ\text{C}$ )
  - DC Reverse Voltage  $V_R$  ..... 30 V
  - Mean Rectifying Current  $I_F$  ..... 200 mA
  - Peak Forward Surge Current  $I_{FSM}$  ..... 1 A

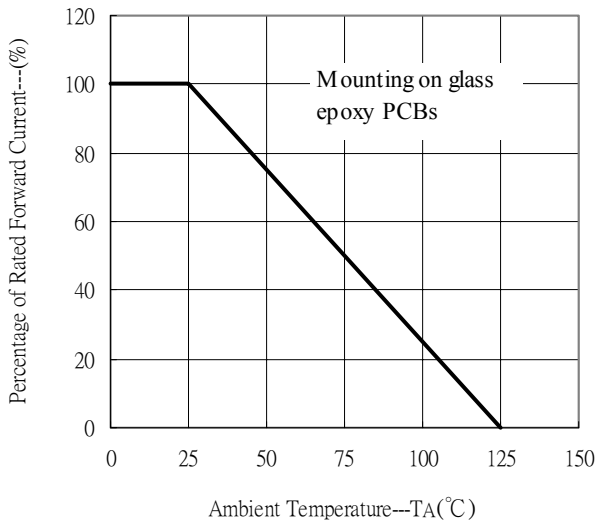


**Characteristics (Ta=25°C)**

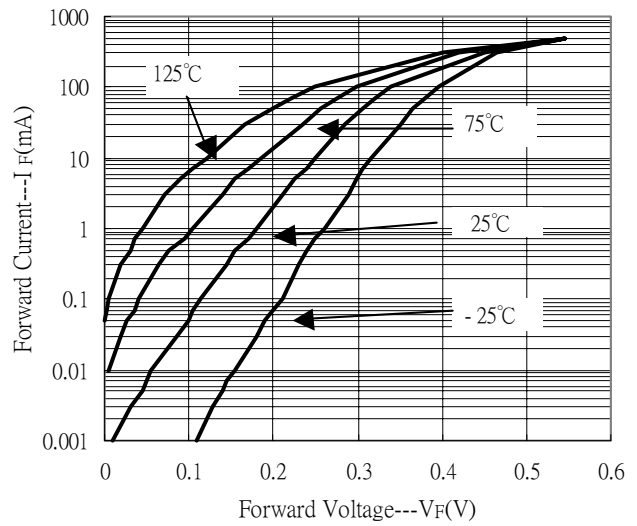
Characteristic	Symbol	Condition	Min.	Max.	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =200mA	-	500	mV
Reverse Leakage Current	I <sub>R</sub>	V <sub>R</sub> =10V	-	30	μA

**Characteristic Curves**

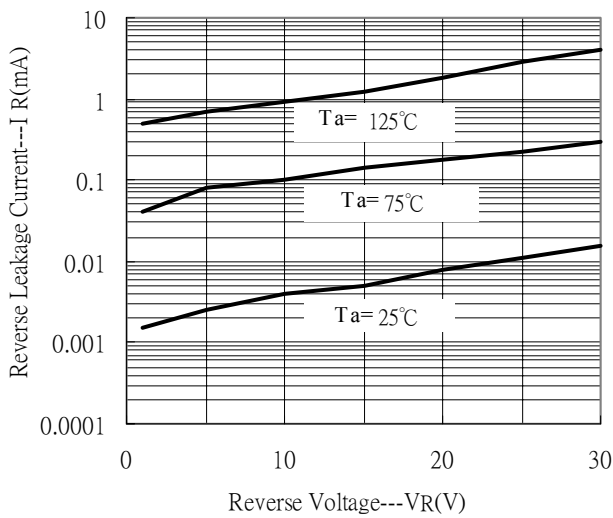
Forward Current Derating Curve



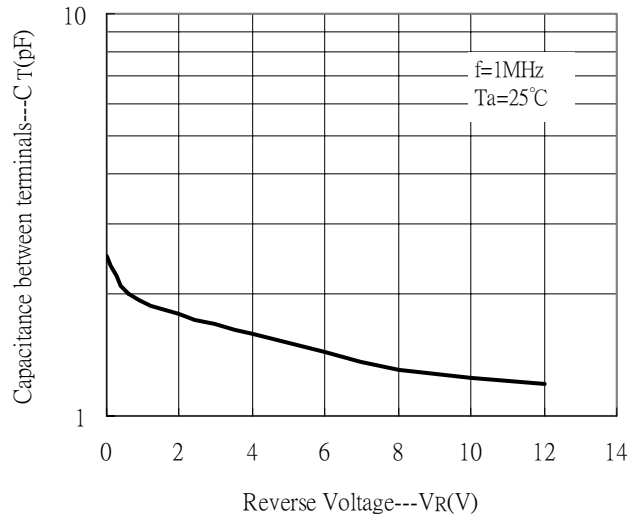
Forward Current vs Forward Voltage



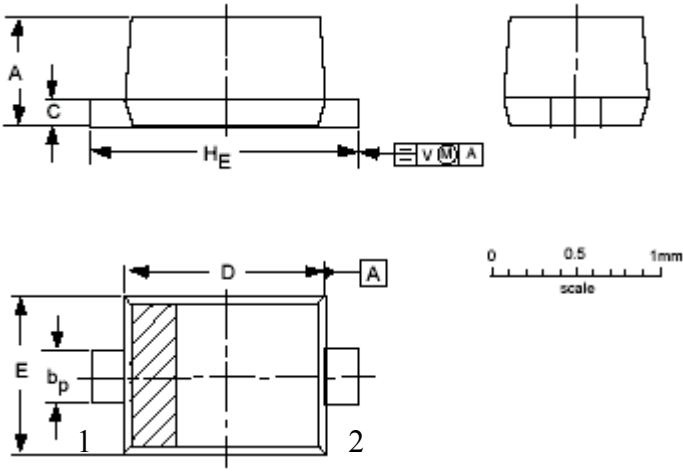
Reverse Leakage Current vs Reverse Voltage



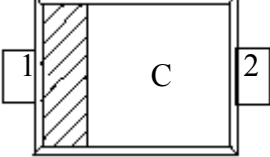
Capacitance vs Reverse Voltage



**SOD-523 Dimension**



Marking Code :



Style : Pin 1. Cathode 2. Anode  
 2-lead SOD-523 Plastic Package  
 CYStek Package Code : C2

\*: Typical

DIM	Millimeters		DIM	Millimeters	
	Min	.Max.		Min.	Max.
A	0.5	0.7	E	0.7	0.9
b <sub>p</sub>	0.25	0.35	H <sub>E</sub>	1.5	1.7
c	0.1	0.2	V	0.15(typ)	
D	1.1	1.3			

**Notes:** 1.Maximum lead thickness includes lead finish thickness, and minimum lead thickness is the minimum thickness of base material.  
 2.If there is any question with packing specification or packing method, please contact your local CYStek sales office.

**Material:**

- Lead: 42 Alloy; solder plating
- Mold Compound: Epoxy resin family, flammability solid burning class: UL94V-0

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