



# RB521CS-30

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

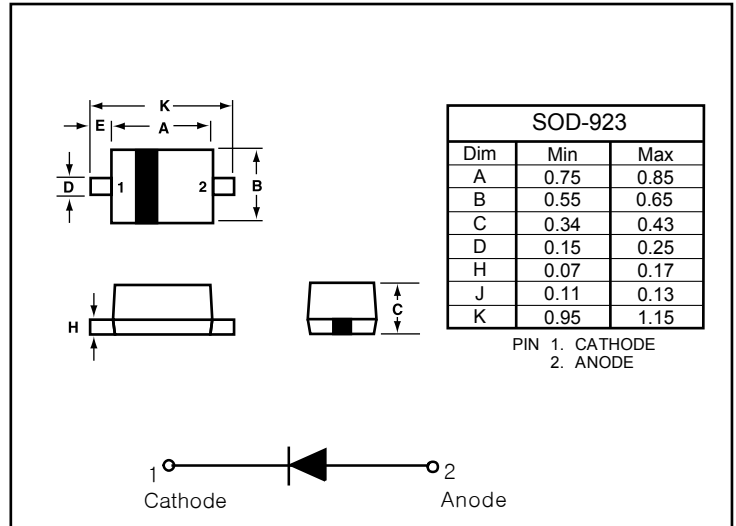
Reverse Voltage - 30 Volts    Forward Current - 100 mAmpere

### FEATURES

- Low Turn-on Voltage
- Fast Switching
- Ultra-small surface mount package.
- PN Junction Guard Ring for Transient and ESD Protection

### MECHANICAL DATA

- Case: SOD-923, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band



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

Rating	Symbol	Value	Units
Peak Reverse Voltage	$V_{RM}$	30	V
Continuous Reverse Voltage	$V_R$	30	V
Continuous Forward Current	$I_F$	100	mA
Non-repetitive Peak Forward Current, 60Hz Half Sine-Wave	$I_{FSM}$	0.5	A
Operating Junction Temperature Range	$T_J$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-40 to +125	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Forward Voltage (Note 1)	$V_F$	$I_F = 10\text{mA}$	-	-	0.35	V
Forward Voltage (Note 1)	$V_F$	$I_F = 20\text{mA}$	-	-	0.40	V
Reverse Leakage Current	$I_R$	$V_R = 10\text{V}$	-	-	10	$\mu\text{A}$

Note 1. Short duration pulse test to avoid self-heating effect



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## RATINGS AND CHARACTERISTIC CURVES

