

**RB521S-30**

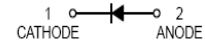
Schottky Barrier Diode

FEATURES

- Low V_F .
- Extremely small mounting type.
- Small surface mounting.



Lead-free

**SOD-523**

APPLICATIONS

- Low current rectification and high speed switching.

ORDERING INFORMATION

Type No.	Marking	Package Code
RB521S-30	C	SOD-523

MAXIMUM RATING @ $T_a=25^{\circ}\text{C}$ unless otherwise specified

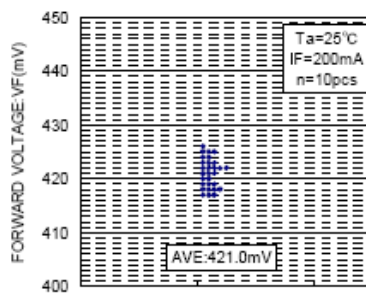
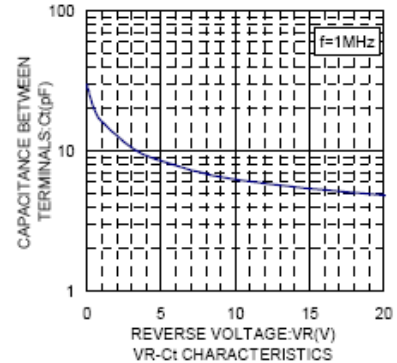
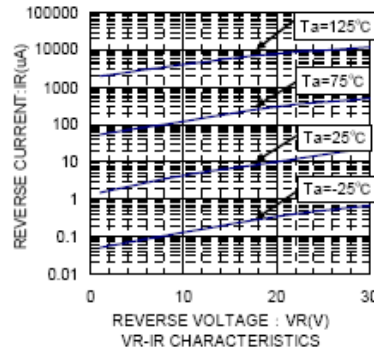
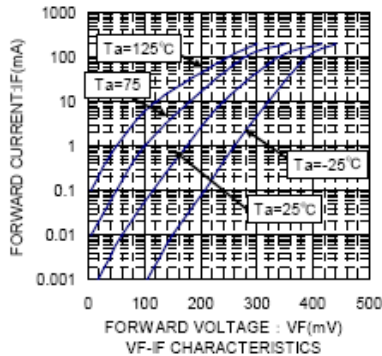
Parameter	Symbol	Limits	Unit
DC reverse voltage	V_R	30	V
Mean rectifying current	I_O	200	mA
Peak forward surge current	I_{FSM}	1	A
Junction temperature	T_j	125	$^{\circ}\text{C}$
Storage temperature	T_{stg}	-40 to +125	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS @ $T_a=25^{\circ}\text{C}$ unless otherwise specified

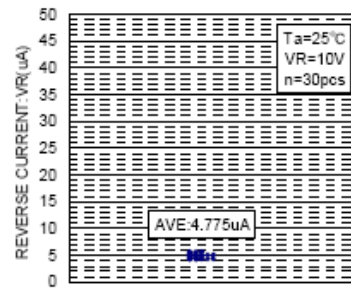
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F			0.50	V	$I_F=200\text{mA}$
Reverse current	I_R			30	μA	$V_R=10\text{V}$



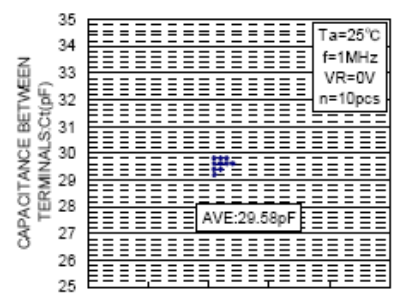
Schottky Barrier Diode

TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

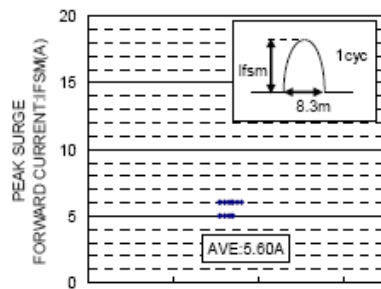
VF DISPERSION MAP



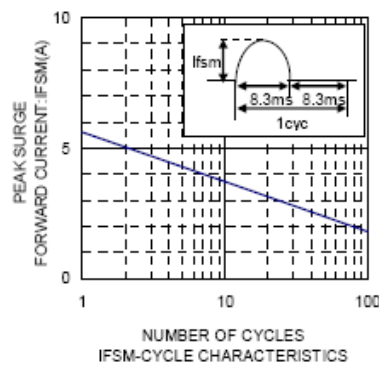
IR DISPERSION MAP



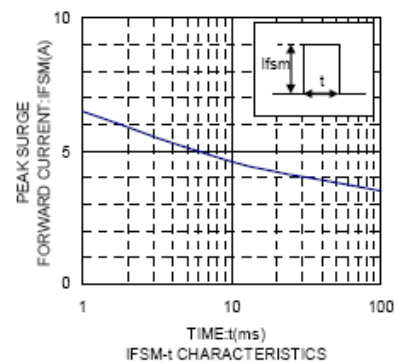
Ct DISPERSION MAP



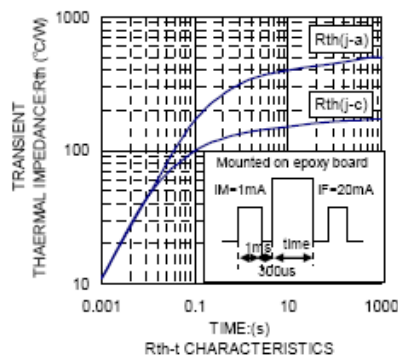
IFSM DISPERSION MAP



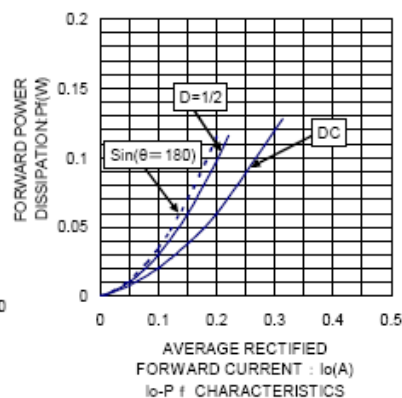
IFSM-CYCLE CHARACTERISTICS



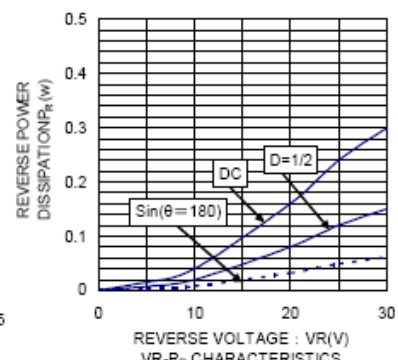
IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS



Io-P f CHARACTERISTICS



VR-Pn CHARACTERISTICS



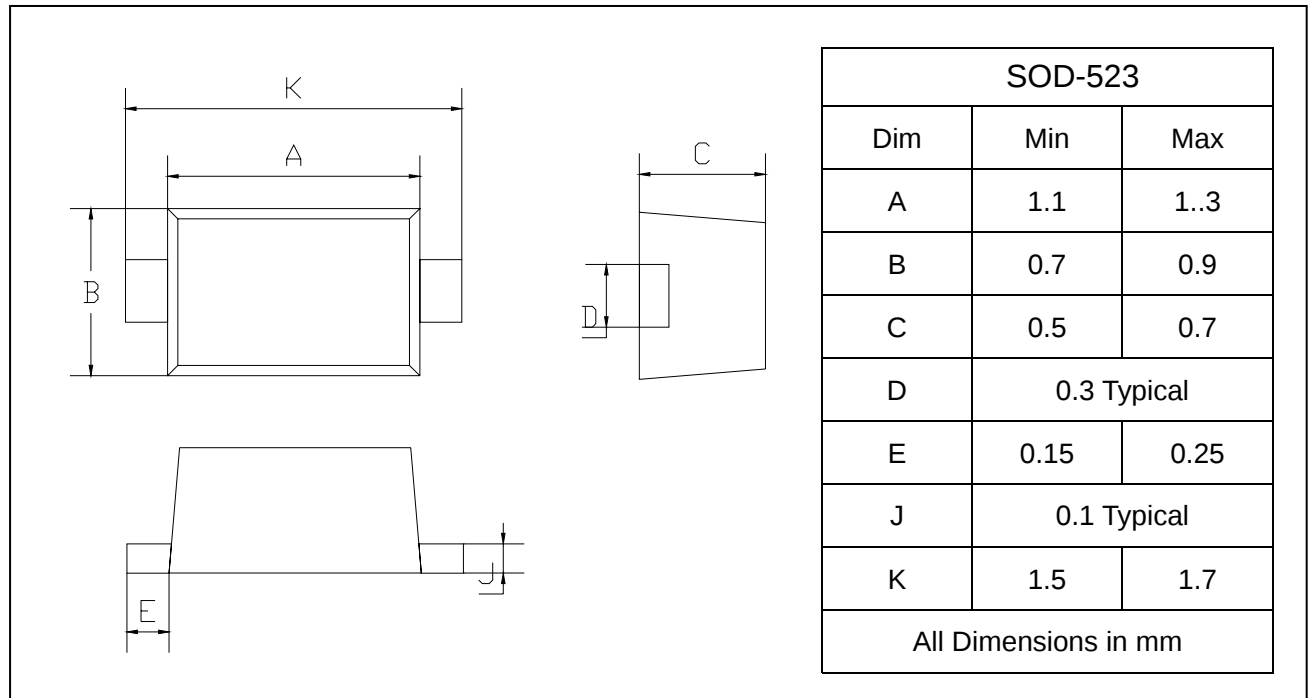
RB521S-30

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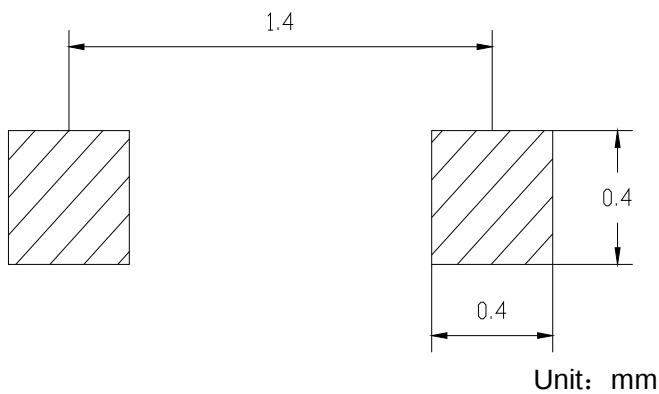
PACKAGE OUTLINE

Plastic surface mounted package

SOD-523



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
RB521S-30	SOD-523	3000/Tape&Reel

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