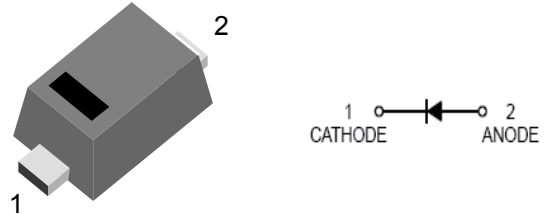


Schottky Barrier Diode in SOD-923

Features

- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability



Mechanical Data

- **Case:** SOD-923 (plastic package).
Lead free; RoHS compliant; Halogen free
- **Molding Compound Flammability Rating:**
UL 94 V-0
- **Terminals:** High temperature soldering guaranteed:
260 °C/10 sec. at terminals

Applications

- Low current rectification
- High efficiency DC-to-DC conversion
- Switch Mode Power Supply (SMPS)
- Reverse polarity protection
- Low power consumption applications

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

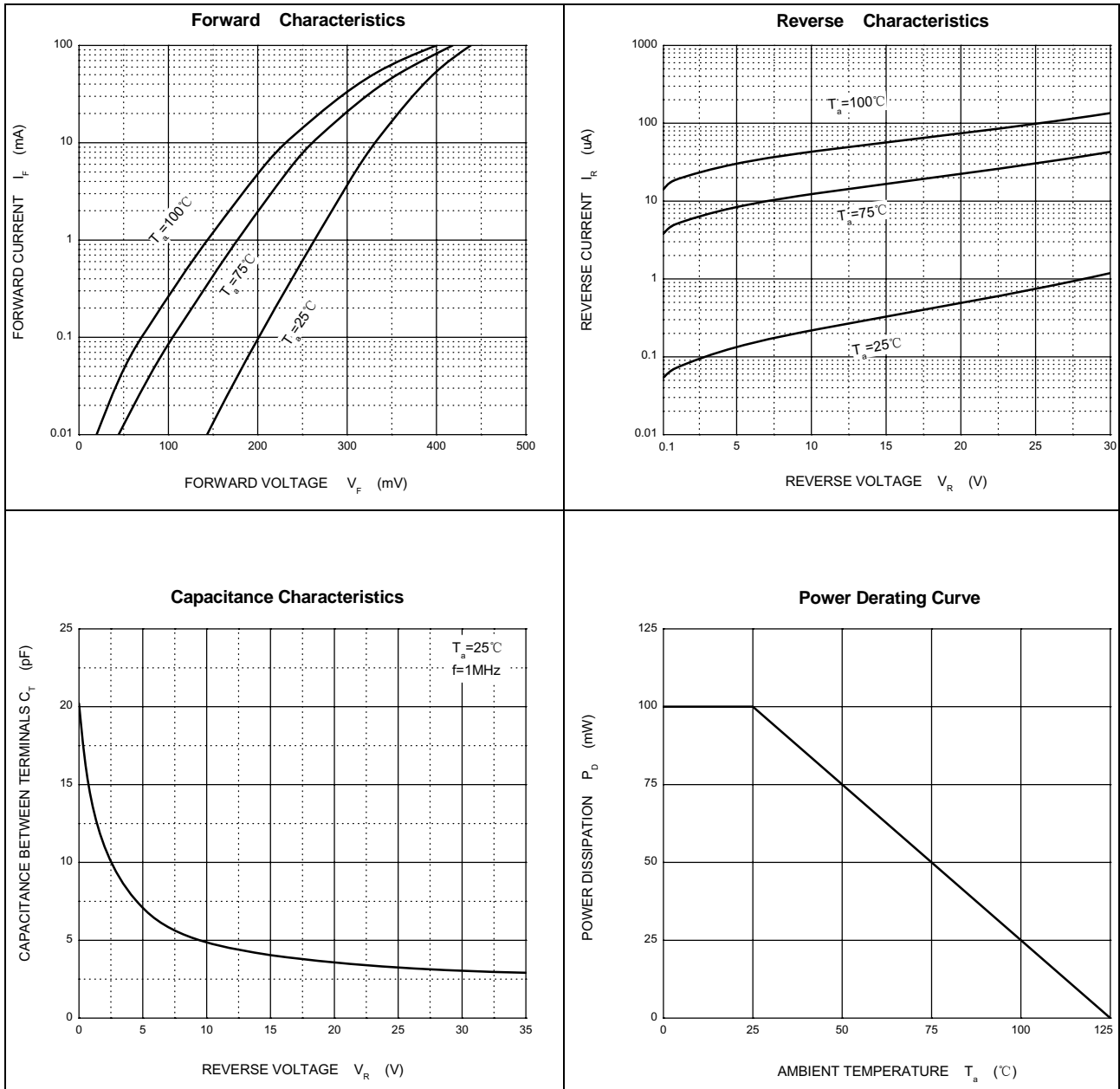
Parameter	Symbol	Limit	Unit
DC reverse voltage	V_R	30	V
Mean rectifying current	I_o	100	mA
Non-repetitive Peak forward surge current @ t=8.3ms	I_{FSM}	1000	mA
Power dissipation	P_D	150	mW
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55~+150	°C

Electrical Characteristics

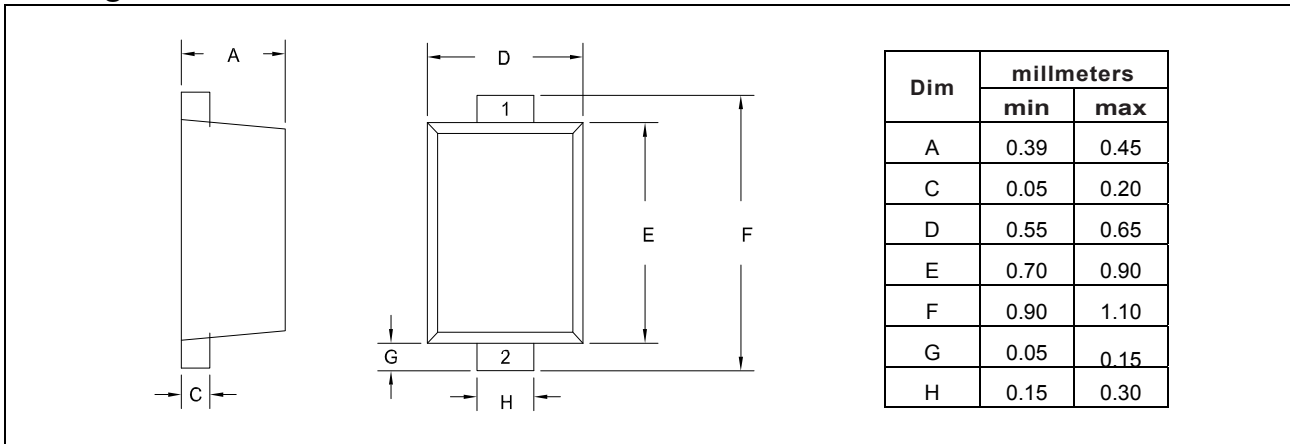
($T_A = 25\text{ °C}$ unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V_{F1}			0.35	V	$I_F=10\text{mA}$
	V_{F2}			0.4	V	$I_F=20\text{mA}$
Reverse current	I_R			10	μA	$V_R=10\text{V}$
				50	μA	$V_R=30\text{V}$

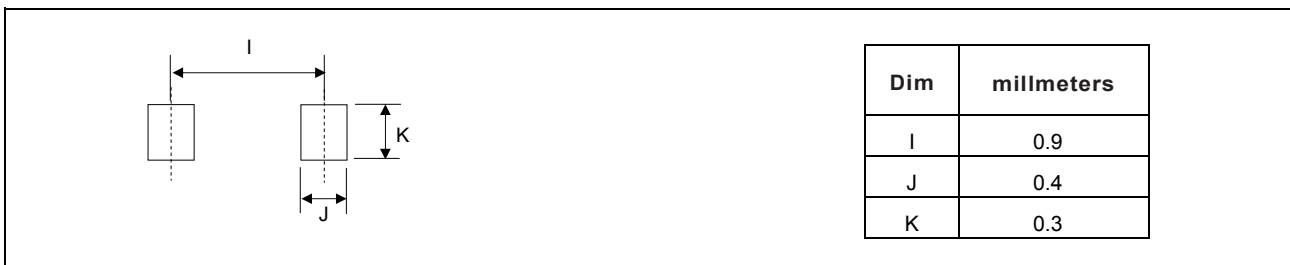
Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



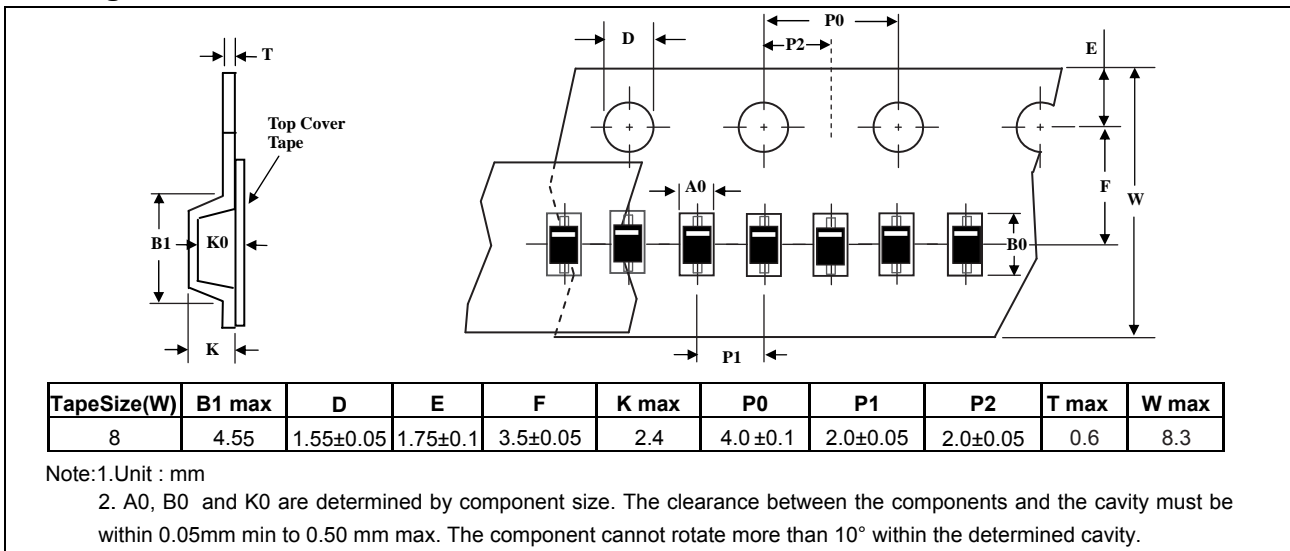
Package Dimensions



Pad Dimensions



Package Informations



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CSB9D521S-30	SOD-923	Tape and reel	8000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release
17-Dec.-2017	2.0	Update

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