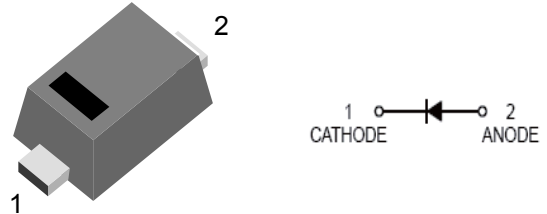


Schottky Barrier Diode in SOD-923

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
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
DC Blocking Voltage	V_R	40	V
Forward Current	I_F	200	mA
Non-Repetitive Peak Forward Current ^{*1}	I_{FSM}	600	mA
Junction Temperature	T_J	125	°C
Storage Temperature	T_{STG}	-65 to +125	°C

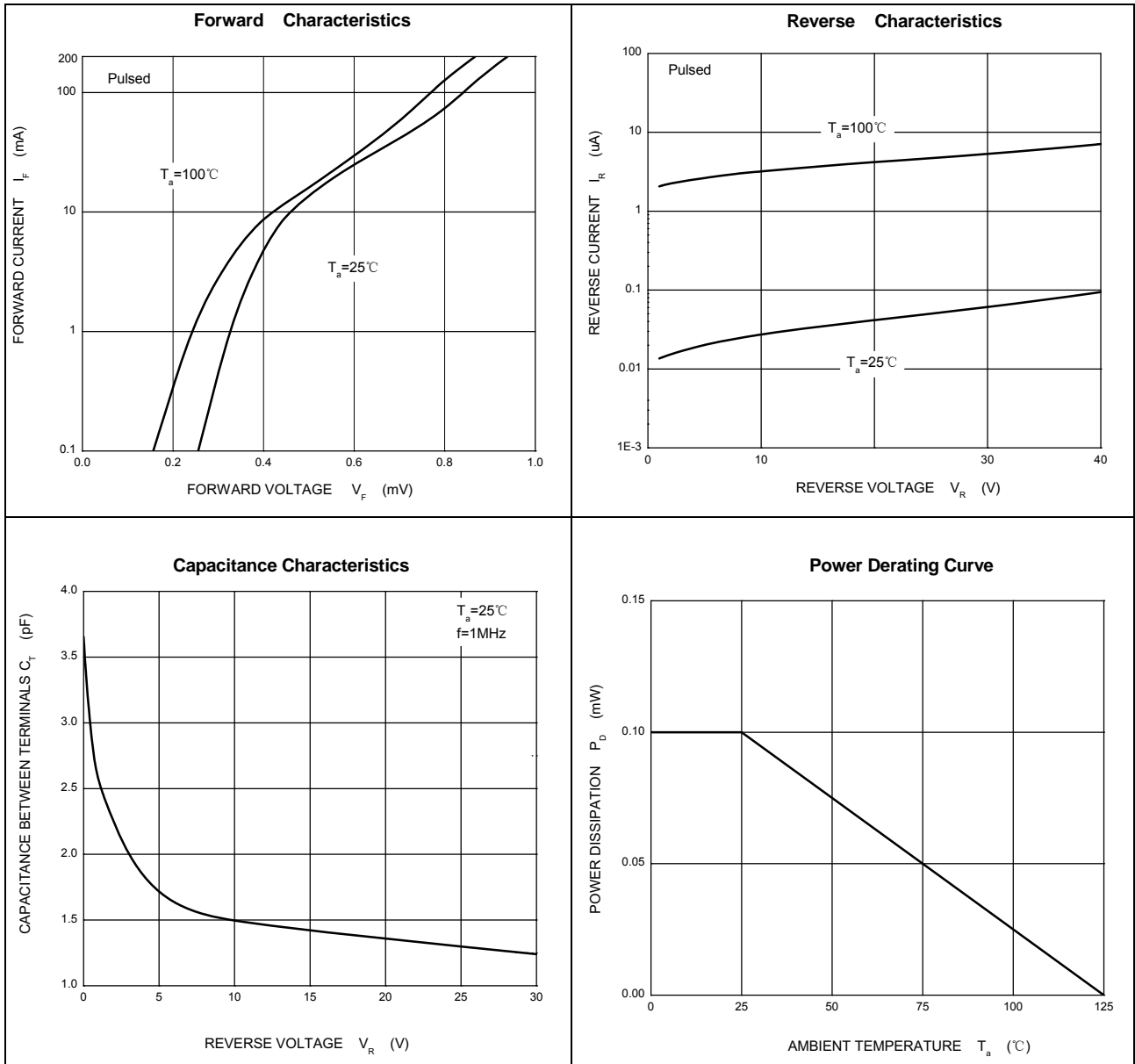
^{*1} 8.3 ms single half Sine-wave

Electrical Characteristics

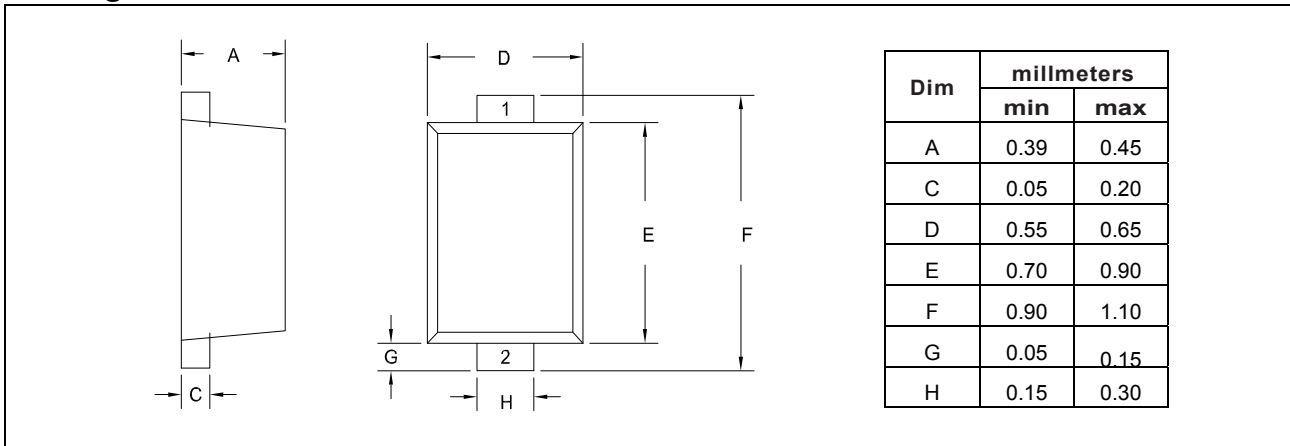
($T_A = 25\text{ °C}$ unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward Voltage	V_F			0.38	V	$I_F = 1\text{mA}$
				1.0	V	$I_F = 40\text{mA}$
Reverse Current	I_R			200	nA	$V_R = 30\text{V}$
Capacitance	C			5	pF	$V_R = 0\text{V}$, $f = 1\text{MHz}$
Reverse Recovery Time	t_{rr}			5	ns	$I_F = I_R = 10\text{mA}$, $I_{RR} = 1\text{mA}$, $R_L = 100\Omega$

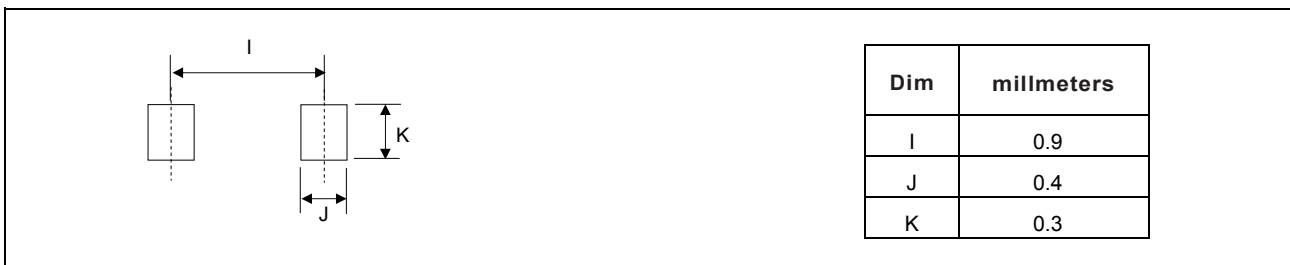
Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



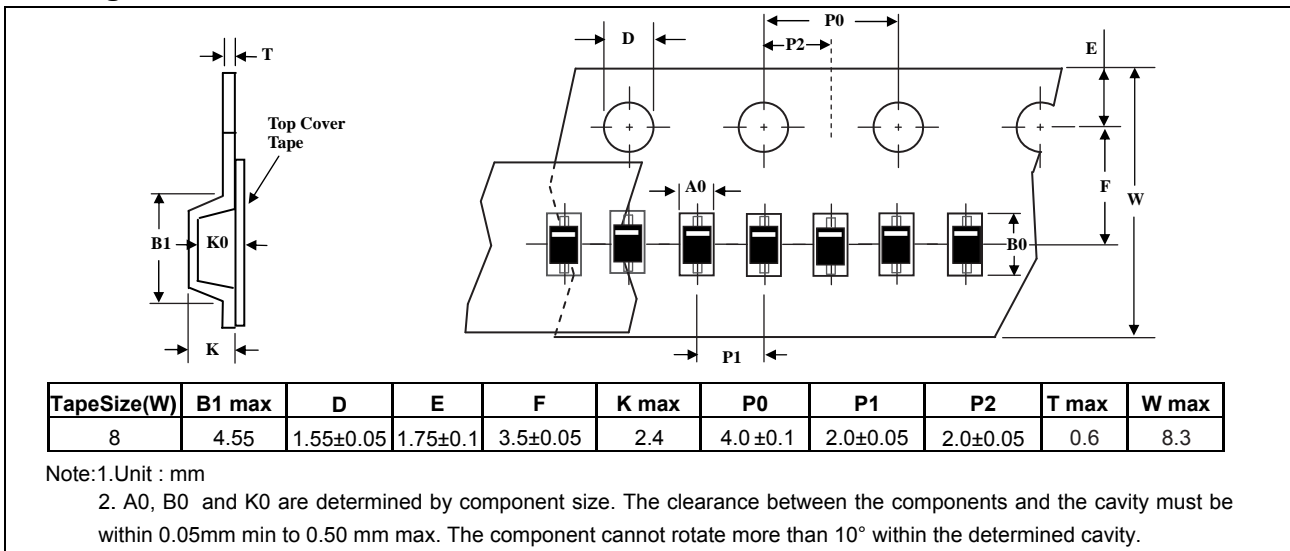
Package Dimensions



Pad Dimensions



Package Informations



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CSB9DBAS40	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.-2018	2.0	Update

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