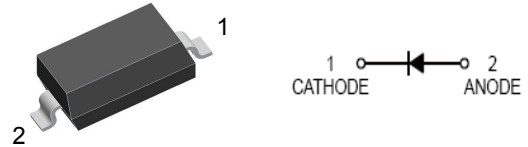


Schottky Barrier Diode in SOD-323

Features

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



Mechanical Data

- **Case:** SOD-323 (plastic package).
Lead free; RoHS compliant
- **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

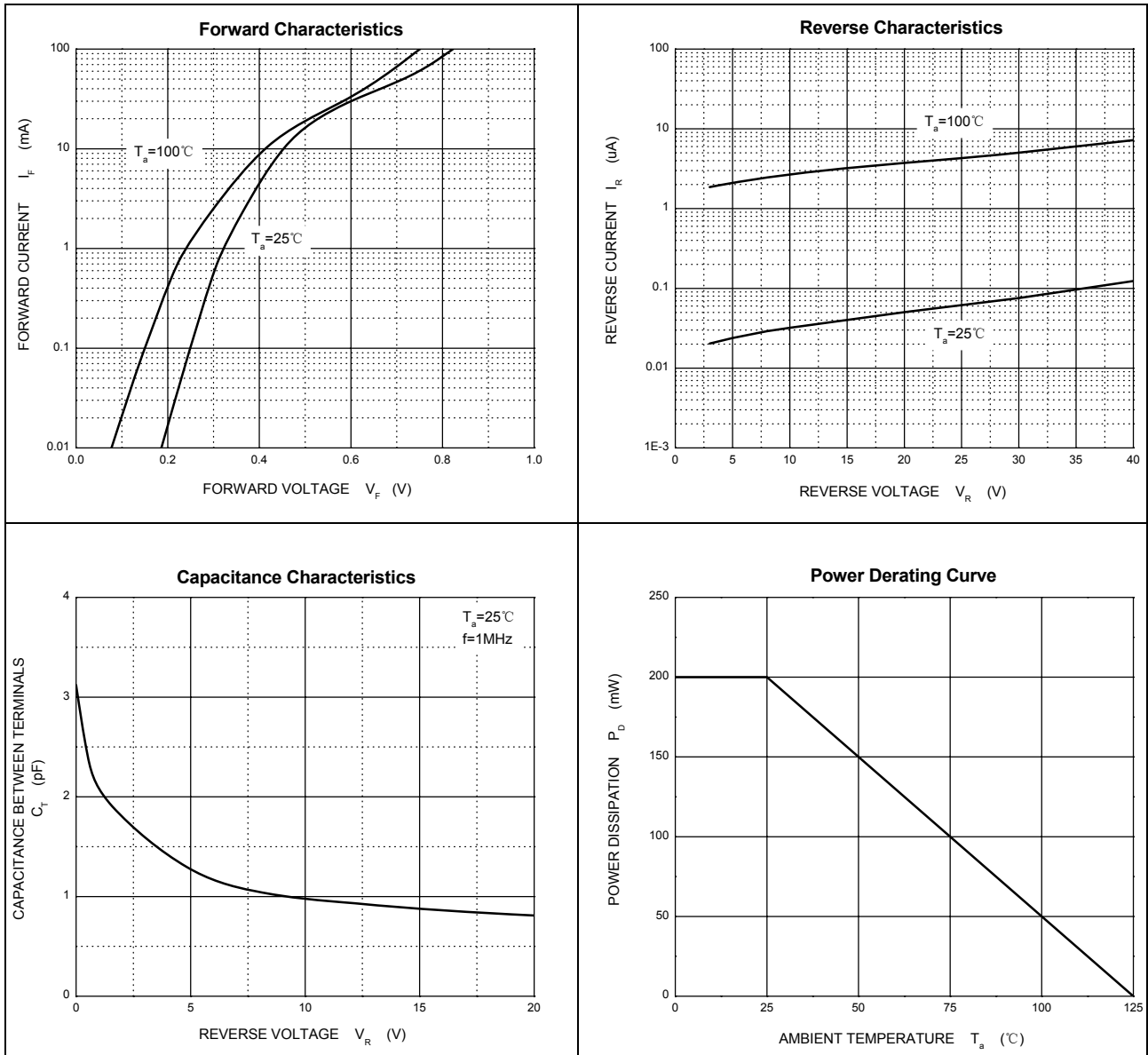
Parameter	Symbol	Limit	Unit
Peak reverse voltage	V_{RM}	40	V
DC reverse voltage	V_R	30	V
Mean rectifying current	I_o	30	mA
Non-repetitive Peak forward surge current @ t=8.3ms	I_{FSM}	200	mA
Power dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	°C/W
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55~+150	°C

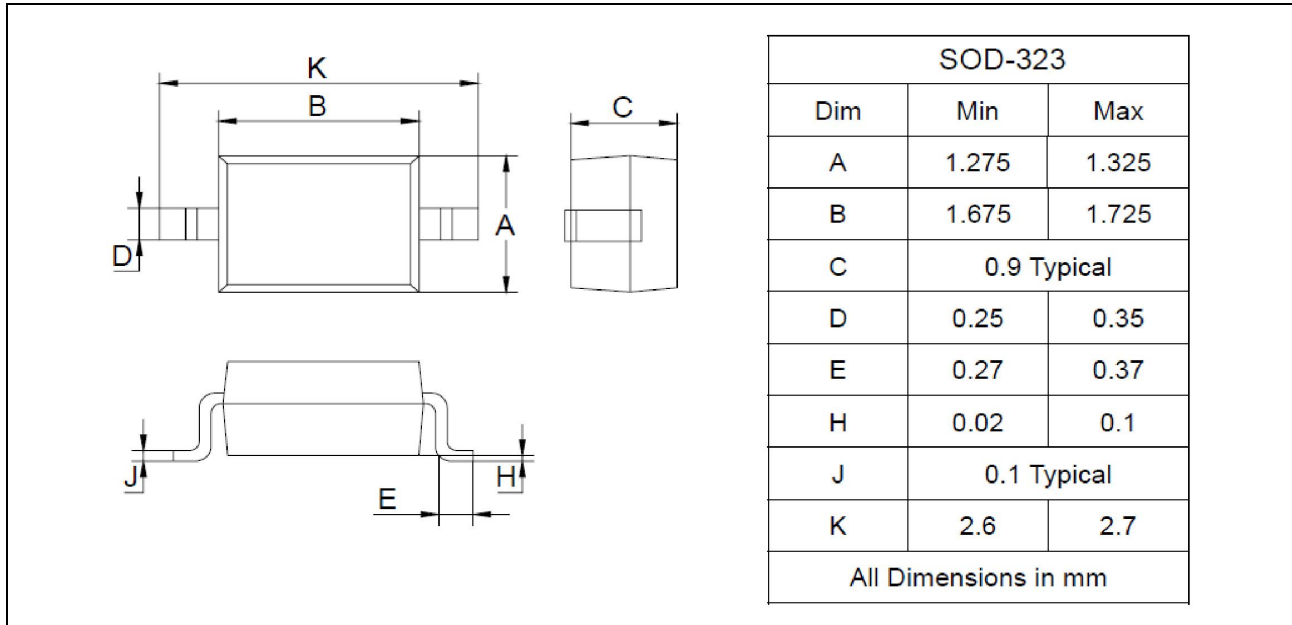
Electrical Characteristics

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

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V_F			0.37	V	$I_F=1\text{mA}$
Reverse current	I_R			0.5	μA	$V_R=30\text{V}$
Capacitance between terminals	C_T		2		pF	$V_R=1\text{V}, f=1\text{MHZ}$

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



Package Dimensions

Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CSB3D751W-40	SOD-323	Tape and reel	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2016	1.0	Initial release

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