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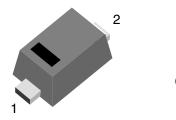
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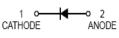
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Schottky Barrier Diode in SOD-523

Features

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





Mechanical Data

- Case: SOD-523 (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	VRM	40	V
DC reverse voltage	VR	30	V
Mean rectifying current	ю	30	mA
Non-repetitive Peak forward surge current @ t=8.3ms	IFSM	200	mA
Power dissipation	PD	150	mW
Thermal Resistance Junction to Ambient	R _{0JA}	500	°C/W
Junction temperature	Tj	125	°C
Storage temperature	T _{stg}	-55~+150	°C

Electrical Characteristics

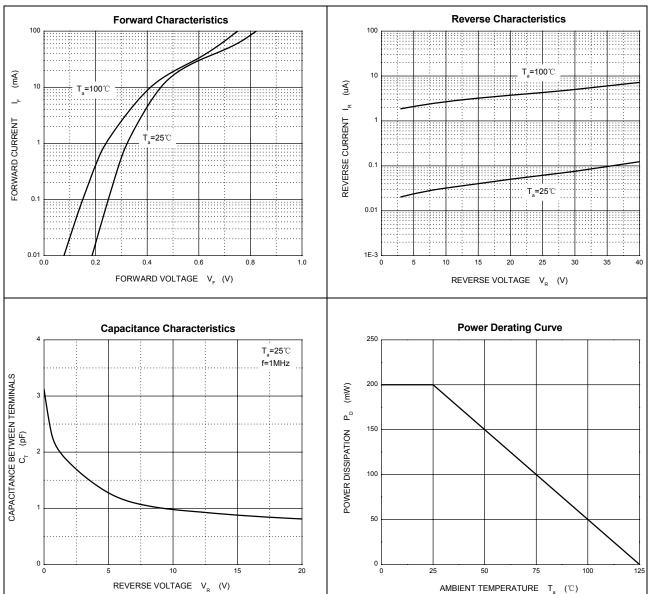
(T_A = 25 °C unless otherwise specified)

Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Forward voltage	V _F			0.37	V	I _F =1mA
Reverse current	I _R			0.5	μA	V _R =30V
Capacitance between terminals	СТ		2		pF	VR=1V, f=1MHZ

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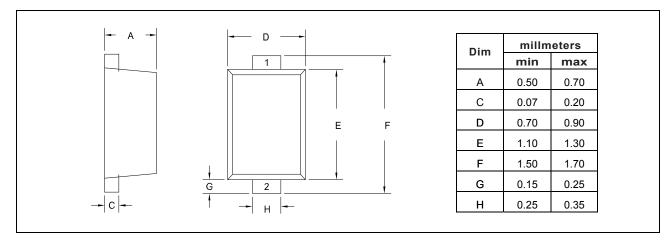
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Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)

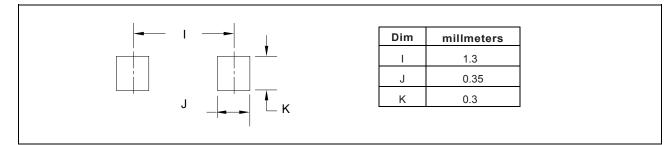
Package Dimensions



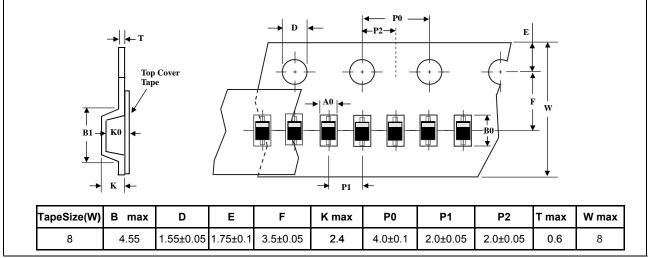


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PAD Dimensions



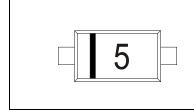
Package Information



Note:1.unit : mm

2. A0, B0, an K0 are determined by component size. The clearance between the components and the cavity must be within 0.05mm min to 0.50 mm max. The component cannot rotate more than 10° within the determined cavity.

Marking



Ordering information

Order code	Package	Net Weight	Packaging option	Base quantity	Packaging specification
CSB5D751S-40	SOD-523	0.0014g	Tape and reel	8000pcs / Reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2016	1.0	Initial release
5-Aug2018	2.0	Update

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