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Fast Switching Diode in SOD-323

Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

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



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Applications

- High Speed Switching and Reverse Polarity Protection
- High Speed Rectifying Applications
- Consumer, Automotive and Telecommunication Industry

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

Symbol	Parameter	Value	Unit	
V _{RRM}	Peak Repetitive Reverse Voltage	90	V	
V _R	DC Blocking Voltage	80	v	
lo	Continuous Forward Current	100	mA	
I _{FSM}	Non-repetitive Peak Forward Surge Current@t=8.3ms	2.0	А	
PD	Power Dissipation	200	mW	
R _{0JA}	Thermal Resistance from Junction to Ambient	625	°C/W	
Tj	Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-55~+150	°C	

Electrical Characteristics

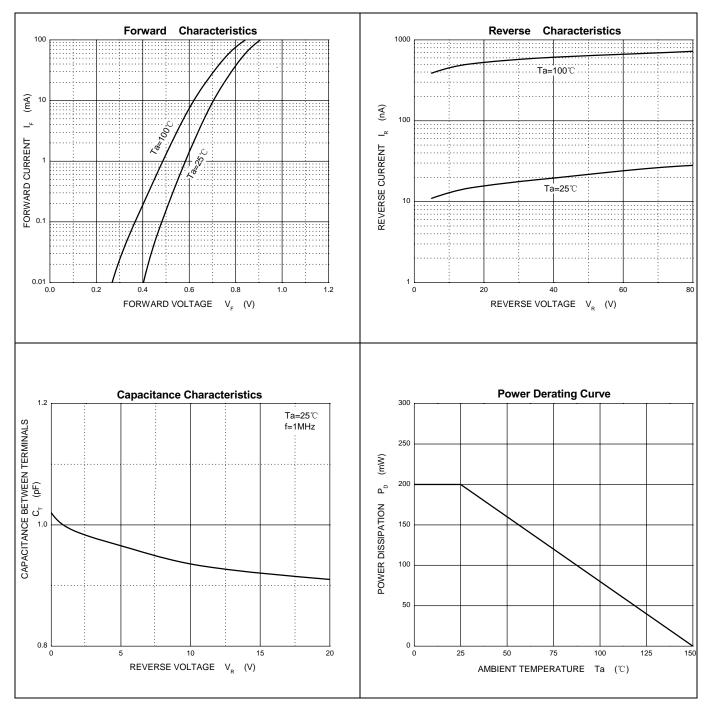
 $(T_A = 25 \degree C \text{ unless otherwise specified})$

Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Forward voltage	V _F			1.2	V	I _F =100mA
Reverse current	I _R			0.1	μA	V _R =80V
Capacitance between terminals	Ст			3	pF	V _R =0.5V,f=1MHz
Reverse recovery time	t _{rr}			4	ns	I_F =10mA , V_R =6V, R_L =100 Ω

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1SS355WX

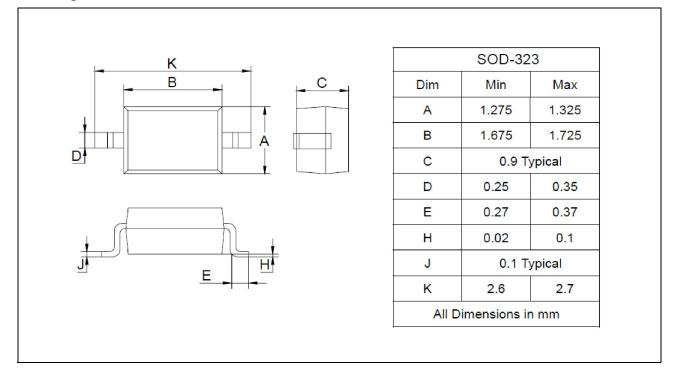


Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)

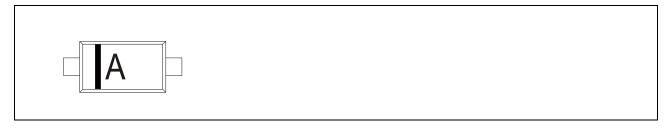
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Package Dimensions



Marking



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
1SS355WX	SOD-323	Tape and reel	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release

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