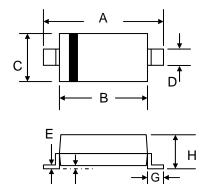


### SURFACE MOUNT SCHOTTKY BARRIER DIODE



### **Features**

- Low Turn-On Voltage
- Fast Switching Speed
- PN Junction Guard Ring for Transient and ESD Protection
- For General Purpose Switching Applications
- Plastic Material UL Recognition Flammability Classification 94V-0



SOD-323					
Dim	Min	Max			
Α	2.30	2.75			
В	1.60	1.80			
С	1.15	1.35			
D	0.25	0.40			
E	0.09	0.18			
G	0.20	0.40			
Н	0.80	1.15			
J	_	0.12			
All Dimensions in mm					

## **Mechanical Data**

• Case: SOD-323, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208 Polarity: Cathode Band

Weight: 0.004 grams (approx.)

Marking: D

Lead Free: For RoHS / Lead Free Version,
Add "-LF" Suffix to Part Number, See Page 4

## Maximum Ratings @T<sub>A</sub>=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	VRM	30	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	V
Average Rectified Output Current	lo	0.5	Α
Non-Repetitive Peak Forward Surge Current, 60Hz	IFSM	2.0	Α
Operating and Storage Temperature Range	TJ, TSTG	-40 to +125	°C

## **Thermal Characteristics**

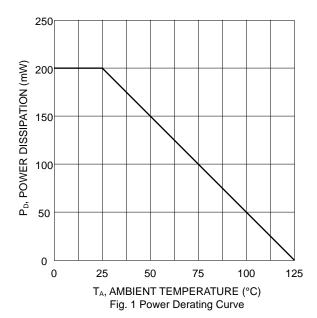
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	Pb	200	mW
Thermal Resistance, Junction to Ambient (Note 1)	R JA	625	°C/W

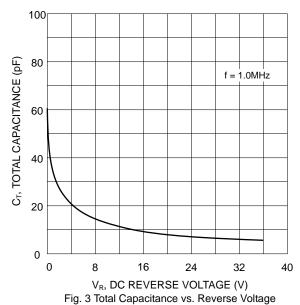
Note: 1. Mounted on FR-4 PC board with minimum recommended pad layout.

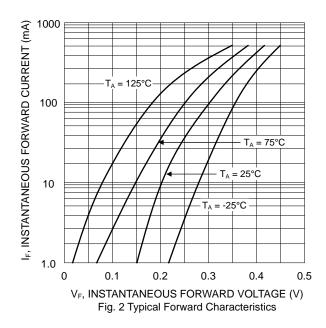


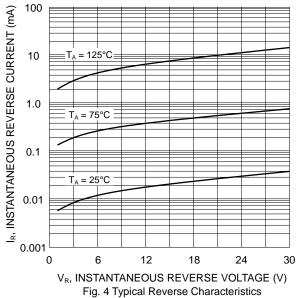
# Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

Characteristic		Symbol	Min.	Тур.	Max.	Unit
Forward Voltage Drop	@ IF = 100mA @ IF = 500mA	VF			0.36 0.47	V
Reverse Leakage Current	@ VR = 20V	lr			100	μA





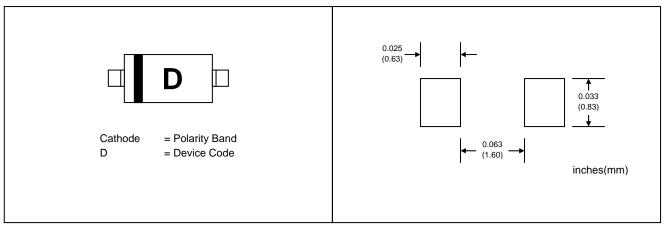






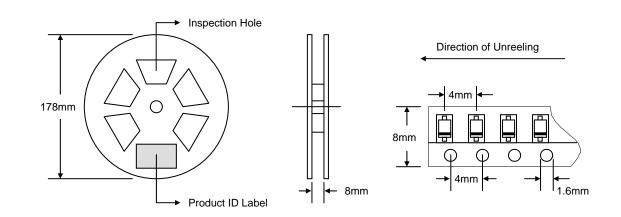
## **MARKING INFORMATION**

## RECOMMENDED FOOTPRINT



### **PACKAGING INFORMATION**





Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
178	3,000	187 x 187 x 65	15,000	390 x 240 x 420	150,000	7.0

**Note:** 1. Anti-static plastic reel, white, water clear or blue color. Inspection hole might be varied in different alignment. 2. Components are packed in accordance with EIA standard 481-1 and 481-2.



#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity	
RB551V-30-T1	SOD-323	3000/Tape & Reel	

- 1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- 2. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, RB551V-30-T1-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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