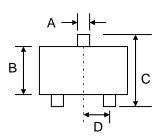


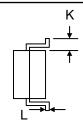
## SURFACE MOUNT SCHOTTKY BARRIER DIODE



### **Features**

- Low Forward 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





## **Mechanical Data**

Case: SOT-523, Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

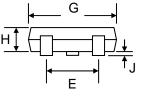
Polarity: See Diagram

Weight: 0.002 grams (approx.)

Mounting Position: Any

Marking: 3V

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





SOT-523				
Dim	Min	Max		
Α	0.15	0.30		
В	0.75	0.85		
O	1.45	1.75		
D	0.50 Typical			
Е	0.90	1.10		
Ð	1.50	1.70		
Н	0.60	0.80		
J	0.02	0.10		
K	0.10	0.30		
L	0.10 0.20			
All Dimensions in mm				

# Maximum Ratings @TA=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	30	V
Average Rectified Output Current	lo	100	mA
Non-Repetitive Peak Forward Surge Current, 60Hz	IFSM	500	mA
Operating and Storage Temperature Range	TJ, Tsтg	-40 to +125	°C

# **Thermal Characteristics**

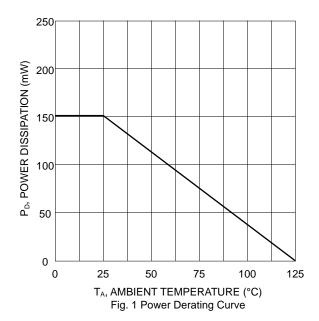
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	Pb	150	mW

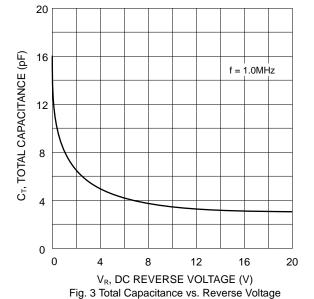
Note: 1. Mounted on FR-4 PC board with minimum recommended pad layout.

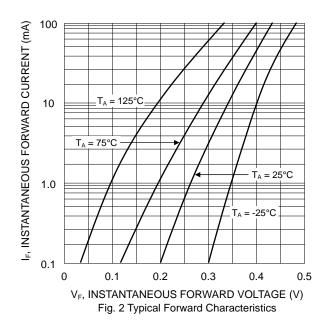


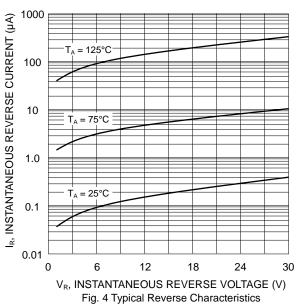
# Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic	Symbol	Min.	Тур.	Max.	Unit	
Forward Voltage Drop	@ IF = 10mA	VF			0.45	V
Reverse Leakage Current	@ VR = 10V	lr			0.5	μA





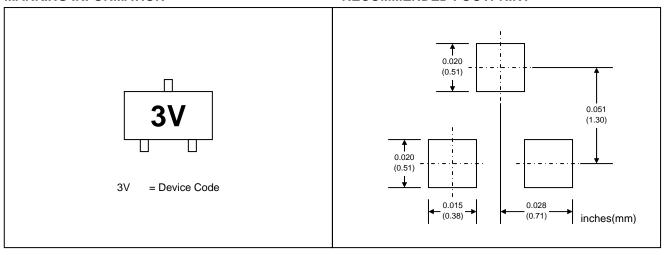




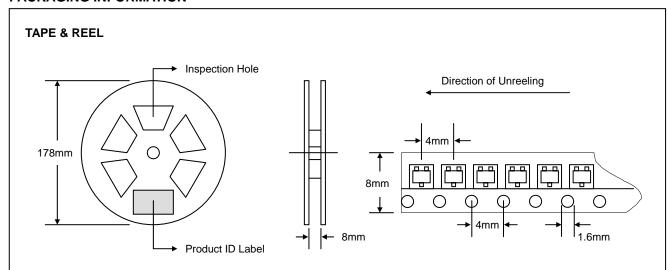


# **MARKING INFORMATION**

# 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	8.0

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
RB548WT-T1	SOT-523	3000/Tape & Reel

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, RB548W-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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