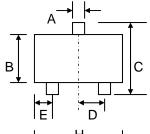


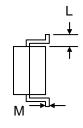
SURFACE MOUNT SCHOTTKY BARRIER DIODE

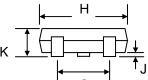


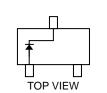
Features

- 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









SOT-23				
Dim	Min	Max		
Α	0.30	0.50		
В	1.19	1.40		
С	2.10	2.50		
D	0.89	1.05		
Е	0.45	0.61		
G	1.78	2.05		
Н	2.65	3.05		
J	0.013	0.15		
K	0.89	1.10		
L	0.45	0.61		
М	0.076	0.178		
All Dimensions in mm				

Mechanical Data

Case: SOT-23, Molded Plastic

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

Polarity: See Diagram

Weight: 0.008 grams (approx.)

Mounting Position: Any

Marking: D2E

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

Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	VRM	25	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	٧
Forward Continuous Current	lF	1.0	Α
Non-Repetitive Peak Forward Surge Current, 60Hz	IFSM	3.0	Α
Operating and Storage Temperature Range	Тյ, Тѕтс	-40 to +125	°C

Thermal Characteristics

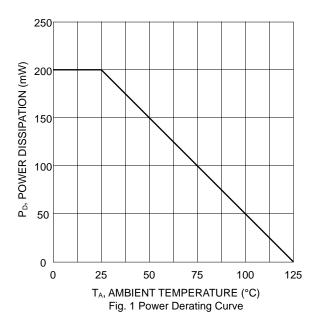
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	Po	200	mW

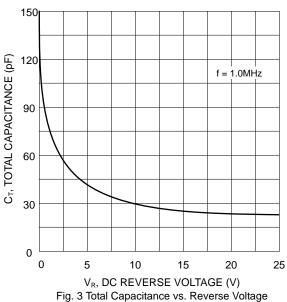
Note: 1. Mounted on FR-4 PC board with minimum recommended pad layout.

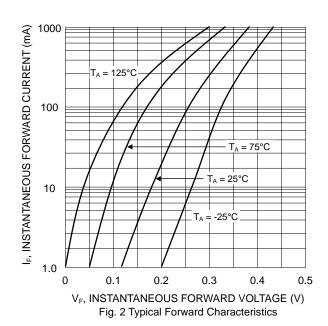


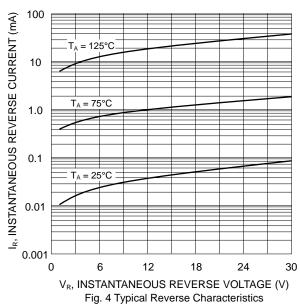
$\textbf{Electrical Characteristics} \ @T_{A}\!\!=\!\!25^{\circ}\text{C unless otherwise specified}$

Characteristic		Symbol	Min.	Тур.	Max.	Unit
Forward Voltage Drop	@ IF = 1.0A	VF			0.45	V
Reverse Leakage Current	@ VR = 20V	IR			200	μA





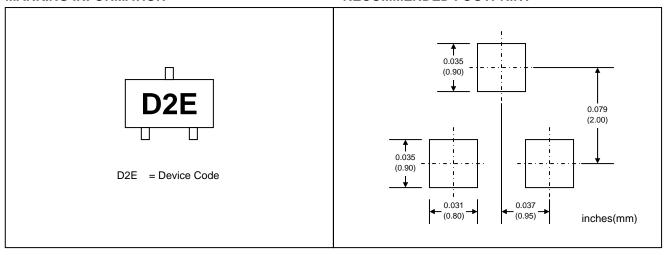




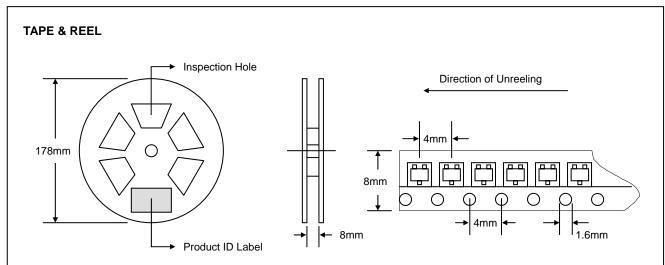


MARKING INFORMATION

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	10.0

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
RB491D-T1	SOT-23	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, RB491D-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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