

/ Descriptions

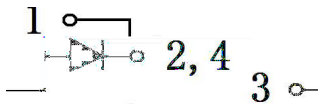
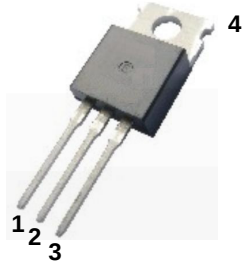
Schottky Barrier Diode in a TO-220 Plastic Package.

/ Features

Low forward voltage drop, low power losses, High efficiency operation.

/ Applications

For use in high frequency inverters, switching power supplies, freewheeling diodes, OR-ing diode, dc-to-dc converters and reverse battery protection.

/ Equivalent Circuit**/ Pinning**

PIN1 Anode PIN 2 4 Cathode PIN 3 Anode

/ h_{FE} Classifications & Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Recurrent Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} , V_{RWM} V_{DC}	100	V
RMS Reverse Voltage	V_{RMS}	70	V
Average forward rectified current	$I_{F(AV)}$	10	A
Non Repetitive Peak Surge Current	I_{FSM}	80	A
Thermal Resistance Junction to Case	$R_{\theta Jc}$	2.8	°C/W
Junction and Storage Temperature Range	T_j T_{stg}	-40~+150	°C

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Breakdown Reverse Voltage	V_{BR}	$I_R=100\mu A(Ta=25^\circ C)$	100			V
Forward Voltage	V_F	$I_F=1A(Ta=25^\circ C)$		0.41	0.48	V
		$I_F=3A(Ta=25^\circ C)$		0.48	0.53	V
		$I_F=1A(Ta=125^\circ C)$			0.44	V
		$I_F=3A(Ta=125^\circ C)$			0.50	V
Instantaneous Reverse Current	I_R (Note 1)	$V_R=100V(Ta=25^\circ C)$		10	50	μA
		$V_R=100V(Ta=125^\circ C)$			10	mA

/Notes:

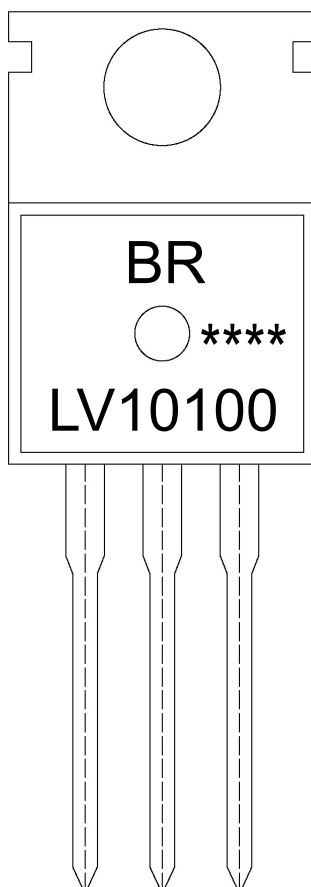
1. /Short duration pulse test used to minimize self-heating effect.
2. / Unless otherwise noted, values for the parameters of a single chip

BRLV10100RA

Rev. B May.-2018

DATA SHEET

/ Marking Instructions



Note:

BR:

Company Code

LV10100

Product Type.

****:

Lot No. Code, code change with Lot No.


() / Temperature Profile for Dip Soldering(Pb-Free)
**Note:**

- | | | | | | |
|---|-----|-----|----|----------|---|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 255 | 5 | 5 | 0.5sec; | 2.Peak Temp.:255 5 , Duration:5 0.5sec. |
| 3 | | | 2 | 10 /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

270 5 10 1 sec. Temp.:270±5℃ Time:10±1 sec

/ Packaging SPEC.
/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180

/ Notices