

/ Descriptions

TO-220AC

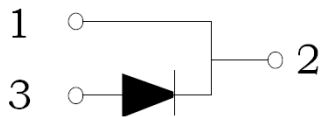
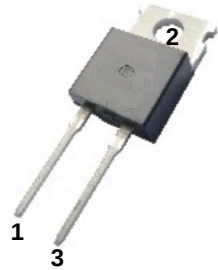
Schottky Barrier Diode in a TO-220AC Plastic Package.

/ Features

Low power loss,high efficiency .

/ Applications

For use in low voltage,high frequency inverters, free wheeling, and polarity protection applications.

/ Equivalent Circuit**/ Pinning**

PIN1 2 Cathode

PIN 3 Anode

/ h_{FE} Classifications & Marking

See Marking Instructions

/ Absolute Maximum Ratings($T_a=25^\circ\text{C}$)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
RMS Voltage	V_R	100	V
Average Forward Rectified Current	$I_{F(AV)}$	10	A
Peak forward surge current	I_{FSM}	150	A
Typical Thermal Resistance Junction to Case	$R_{\theta Jc}$	2.0	$^\circ\text{C}/\text{W}$
Junction Temperature Range	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55~150	$^\circ\text{C}$

/ Electrical Characteristics($T_a=25^\circ\text{C}$)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_R	$I_R=10\mu\text{A}$	100			V
Forward Voltage	V_F	$I_F=10\text{A}$			0.7	V
		$I_F=10\text{A}$ $T_C=125^\circ\text{C}$			0.8	V
		$I_F=20\text{A}$			0.95	V
		$I_F=20\text{A}$ $T_C=125^\circ\text{C}$			0.85	V
Peak Instantaneous Reverse Current	I_{RM}	$V_R=100\text{V}$			0.1	mA
		$V_R=100\text{V}$ $T_C=125^\circ\text{C}$			6	mA

/ Electrical Characteristic Curve

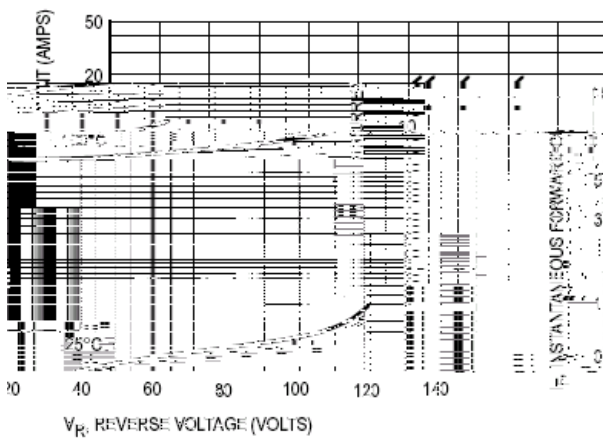


Figure 2. Typical Reverse Current

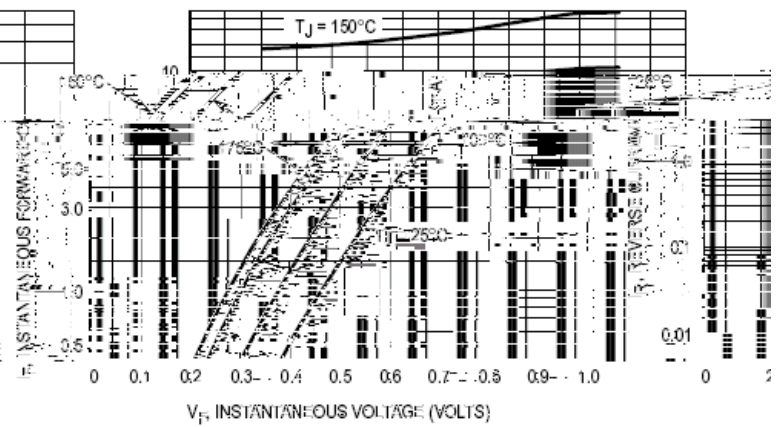


Figure 1. Typical Forward Voltage

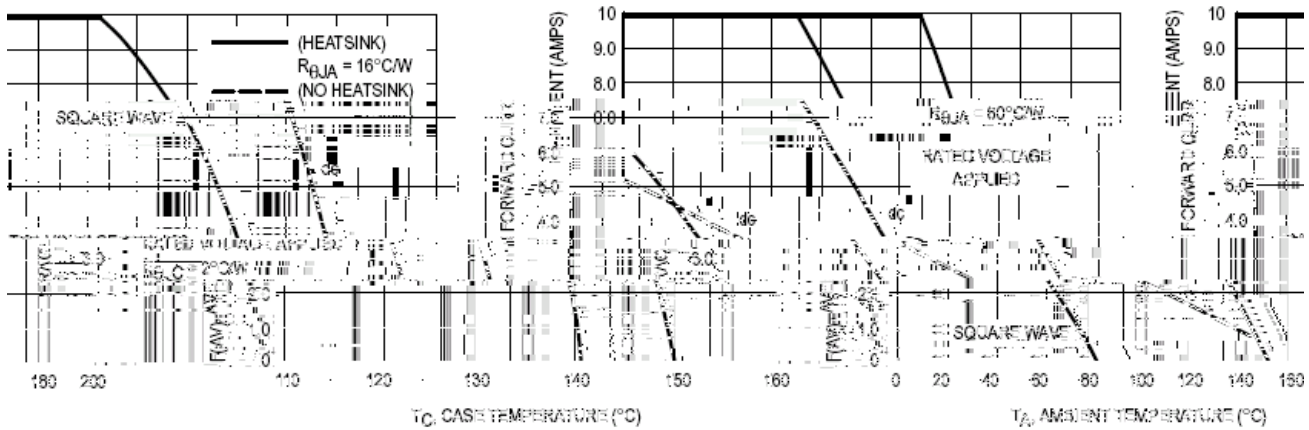


Figure 3. Current Derating, Case

Figure 4. Current Derating, Ambient

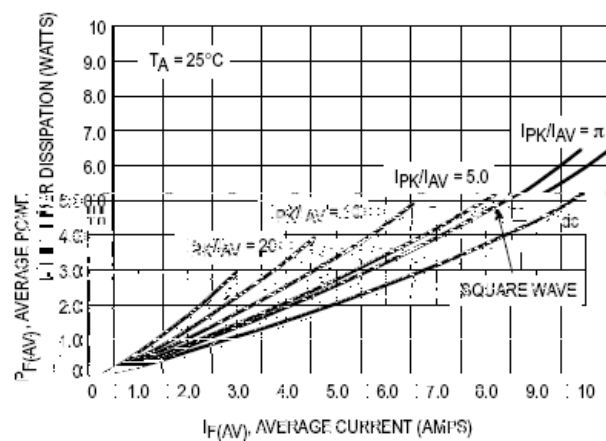


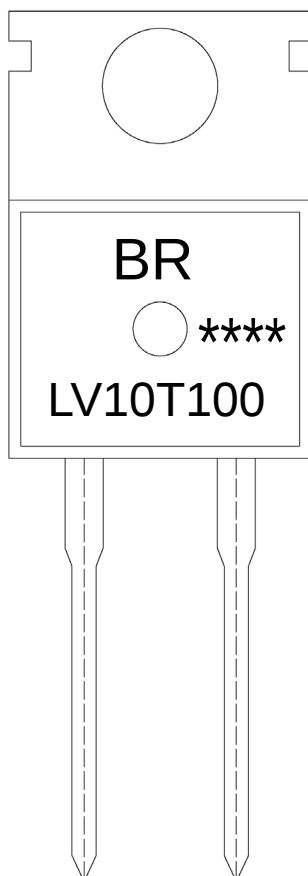
Figure 5. Forward Power Dissipation

BRLV10T100AC

Rev.H Apr.-2019

DATA SHEET

/ Marking Instructions



BR

LV10T100

Note:

BR:

Company Code

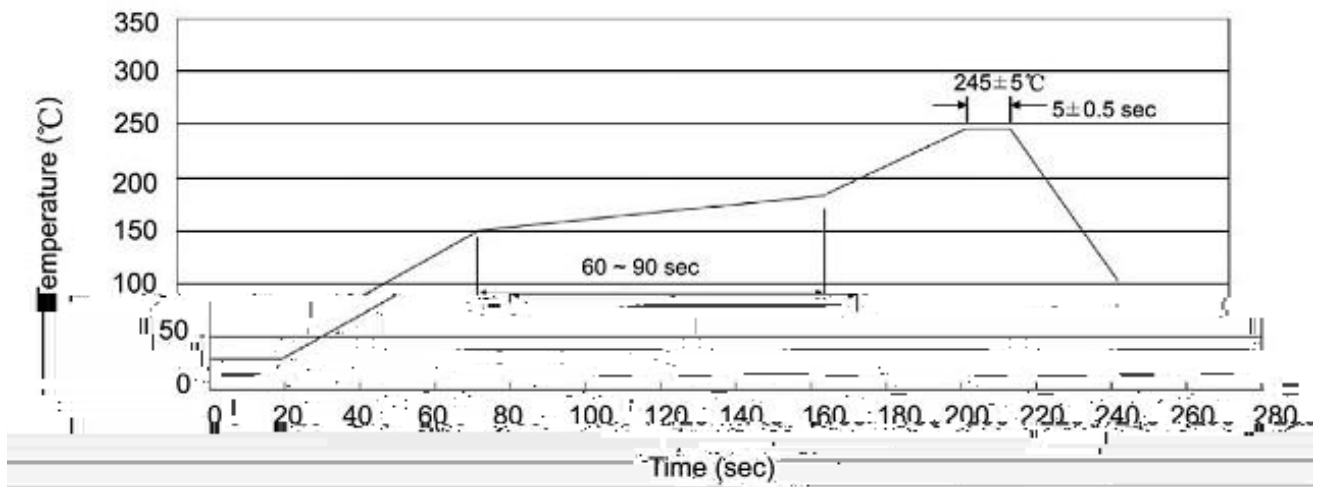
LV10T100

Product Type.

****:

Lot No. Code, code change with Lot No.

() / Temperature Profile for Dip Soldering(Pb-Free)



Note:

- | | | | | | |
|---|-------|-----|-----------|--------|---|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180 , 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/AC	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/AC	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180

/ Notices