

# BRLV10T100AC

Rev.H Apr.-2019

## / Descriptions

TO-220AC

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

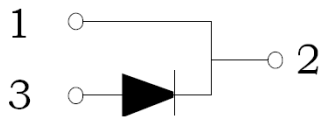
## / Features

Low power loss,high efficiency .

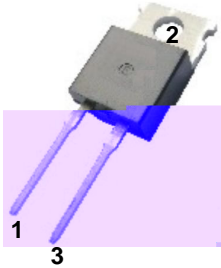
## / Applications

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

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DATA SHEET

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	$R_{Jc}$	2.0	/W
Junction Temperature Range	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

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

/ Electrical Characteristic Curve

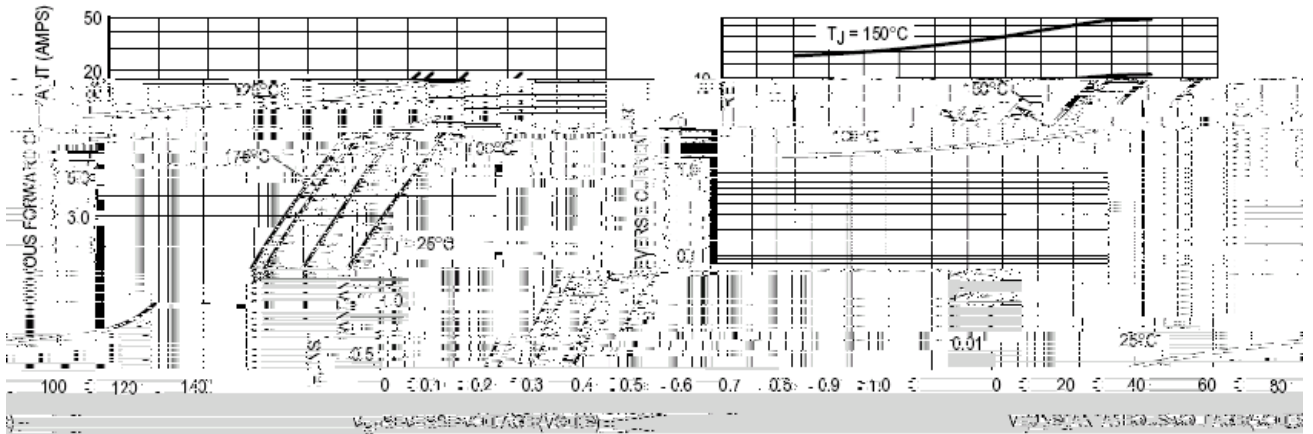


Figure 2. Typical Reverse Current

Figure 1. Typical Forward Voltage

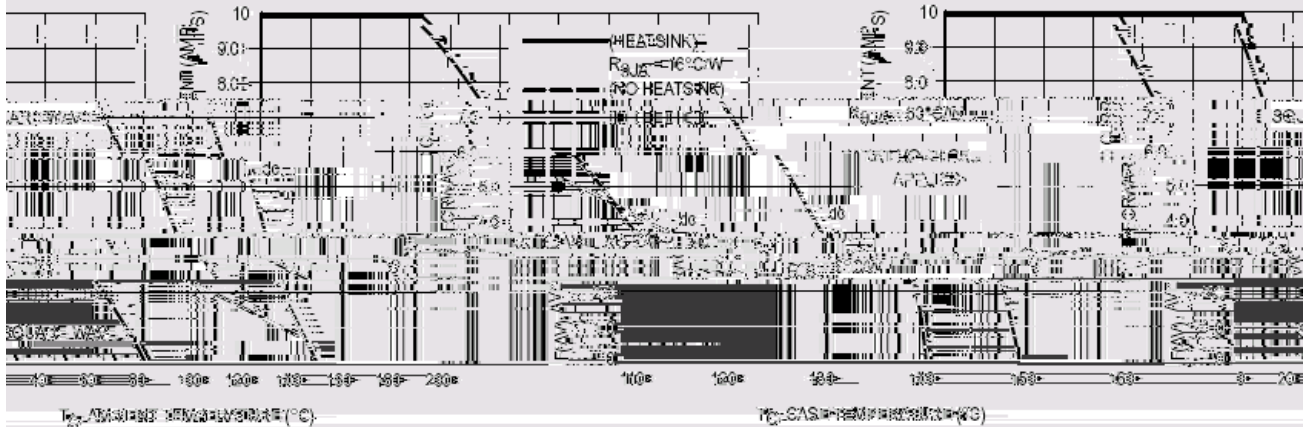


Figure 4. Current Derating, Ambient

Figure 3. Current Derating, Case

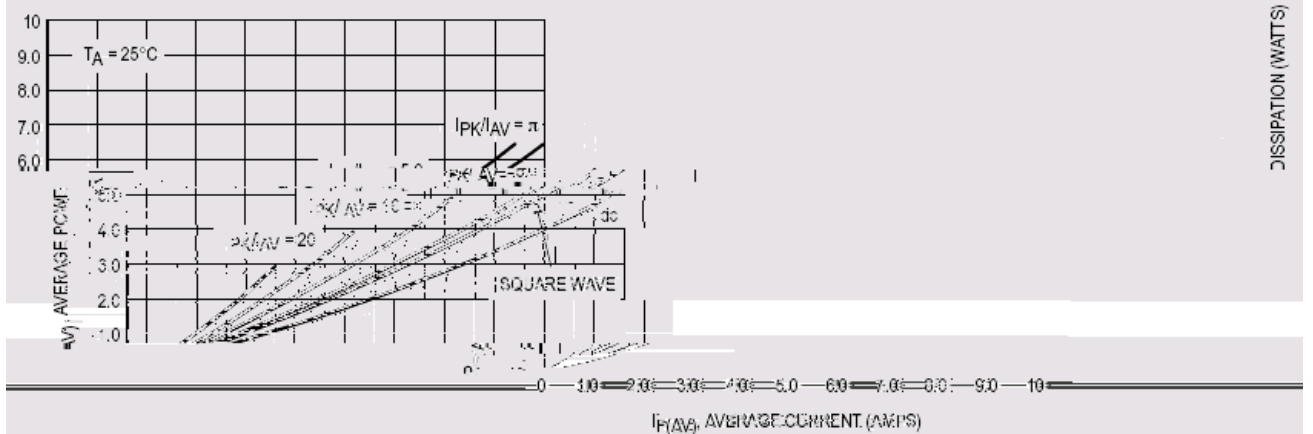


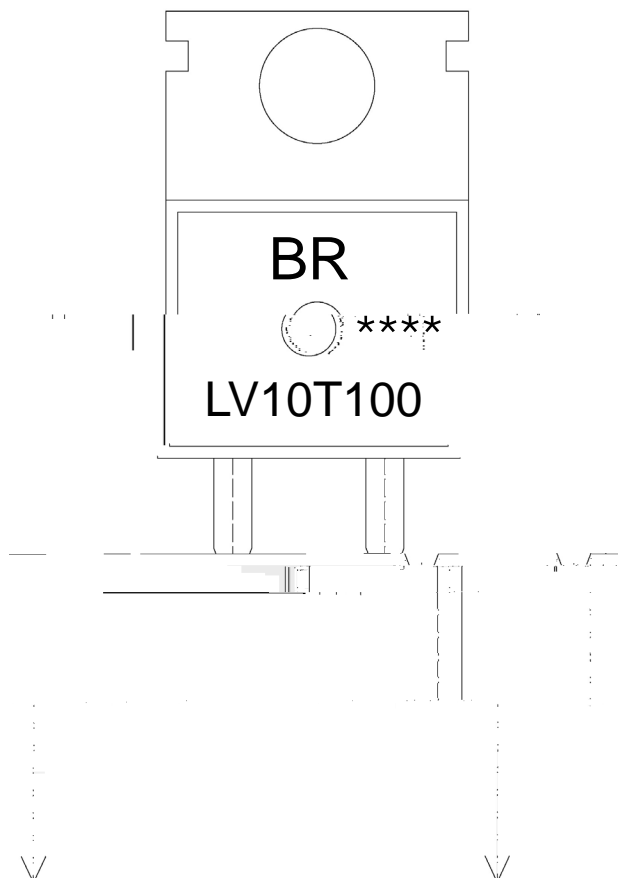
Figure 5. Forward Power Dissipation

# **BRLV10T100AC**

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**DATA SHEET**

**/ Marking Instructions**



BR

LV10T100

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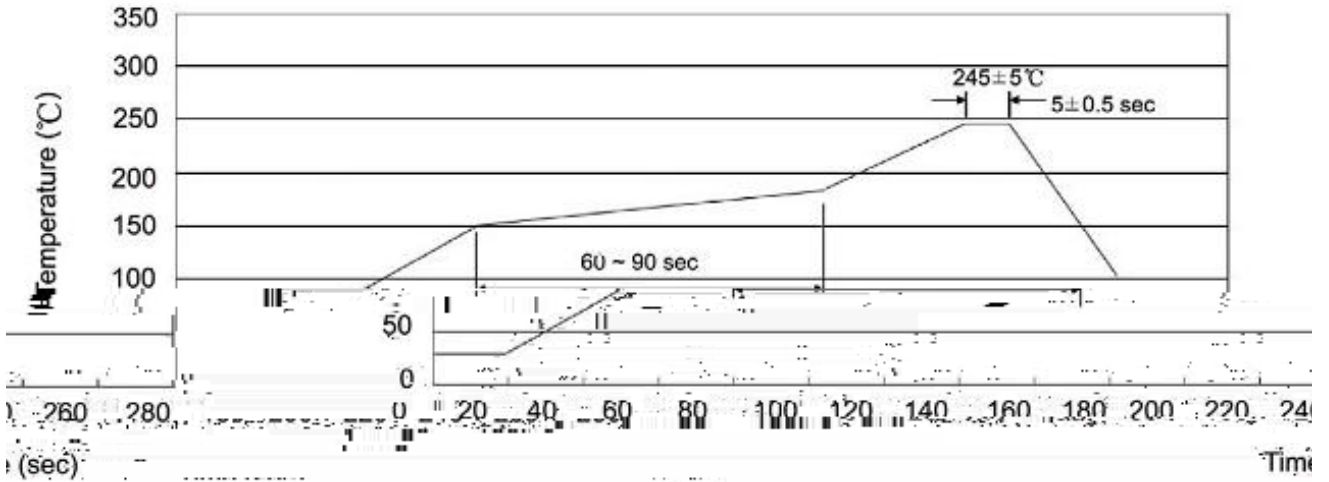
Note:

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	Units					Dimension (unit mm <sup>3</sup> )		
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
TO-220/F/AC	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type	Units					Dimension (unit mm <sup>3</sup> )		
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube	Inner Box	Outer Box
TO-220/F/AC	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180

**/ Notices**