

/ Descriptions

TO-220AC

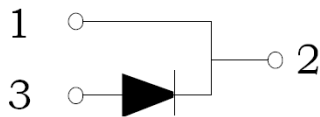
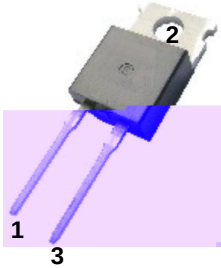
Schottky Barrier Diode in a TO-220AC Plastic Package.

/ 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

BRLV10T100AC

Rev.H Apr.-2019

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
		$I_F=10A \quad T_C=125$			0.8	V
		$I_F=20A$			0.95	V
		$I_F=20A \quad T_C=125$			0.85	V
Peak Instantaneous Reverse Current	I_{RM}	$V_R=100V$ $V_R=100V \quad T$			0.1	mA

/ Electrical Characteristic Curve

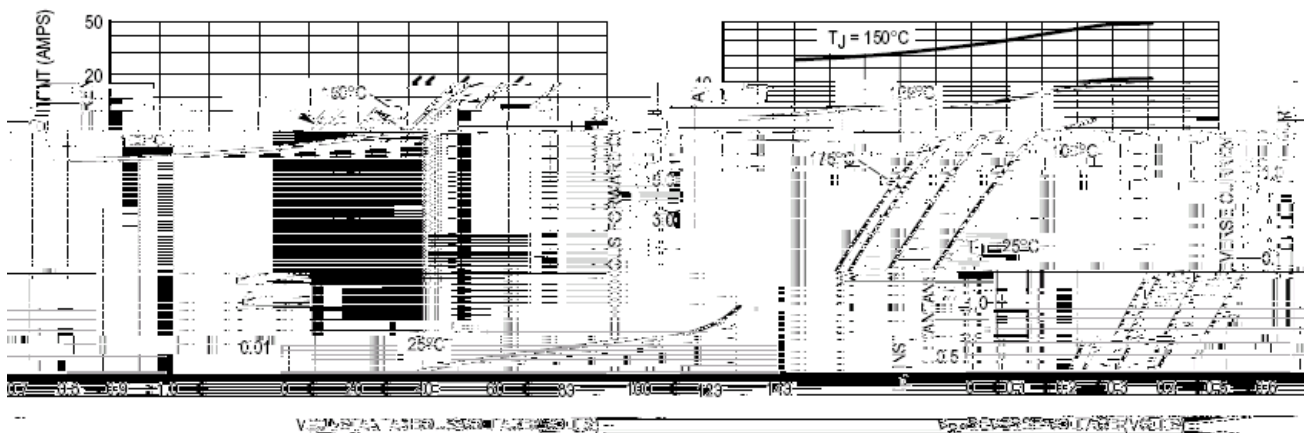


Figure 1. Typical Forward Voltage

Figure 2. Typical Reverse Current

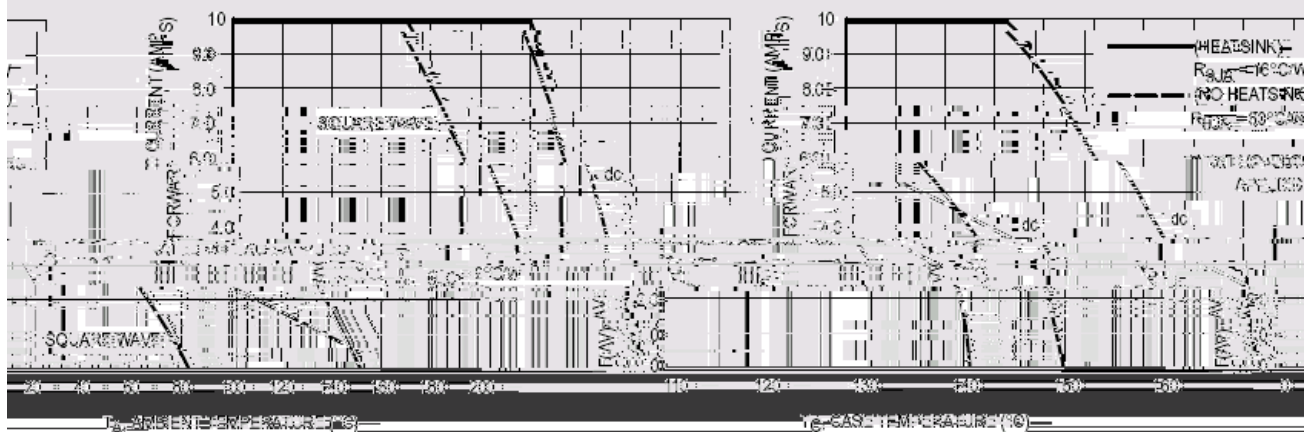


Figure 3. Current Regulation Characteristics

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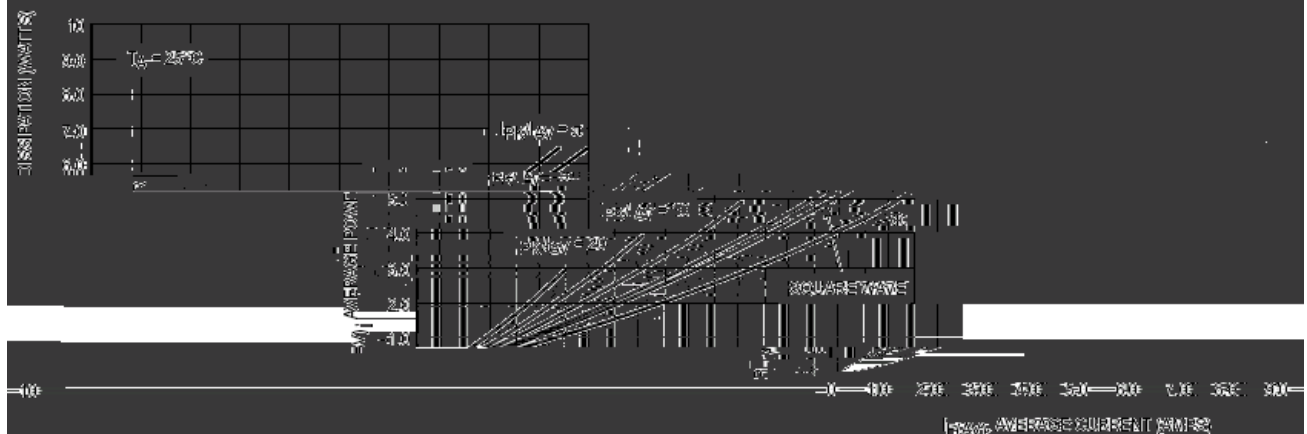


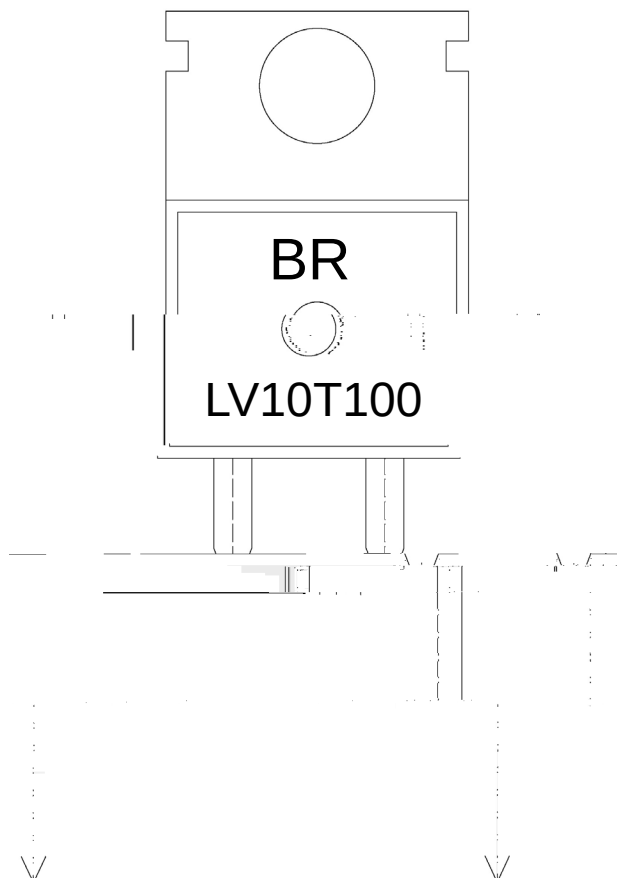
Figure 4. Forward Power Dissipation

BRLV10T100AC

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DATA SHEET

/ Marking Instructions



BR

LV10T100

Note:

BR:

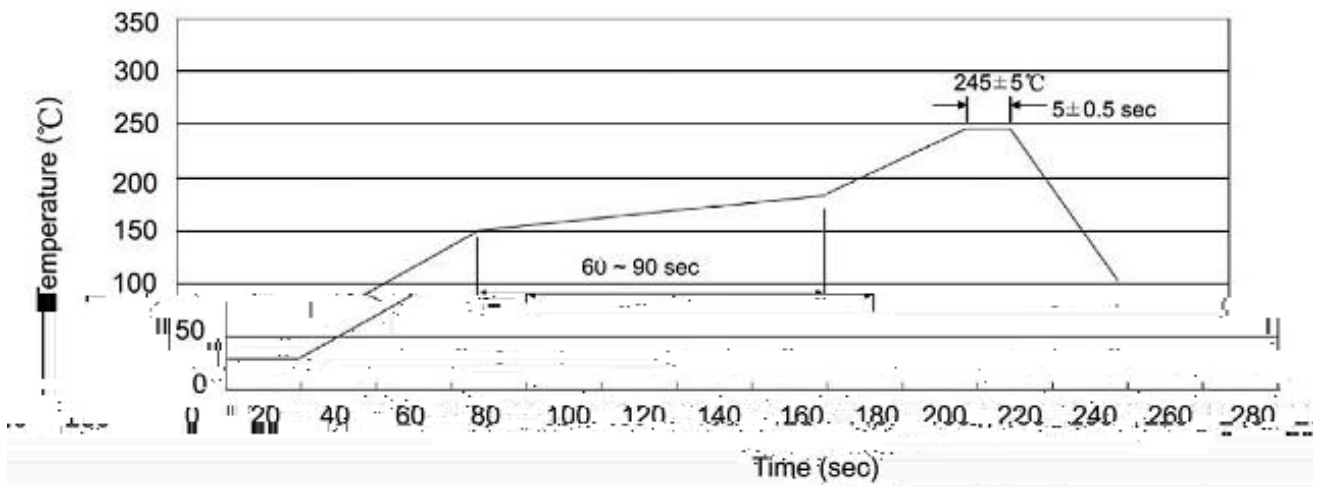
Company Code

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	Units					Dimension		(unit mm ³)

/ TUBE

Package Type	Units					Dimension		(unit mm ³)

/ Notices