

BRLV10T100AC

Rev.H Apr.-2019

/ Descriptions

TO-220AC

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

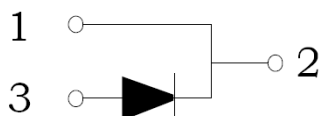
/ Features

Low power loss,high efficiency .

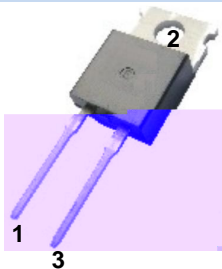
/ Applications

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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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

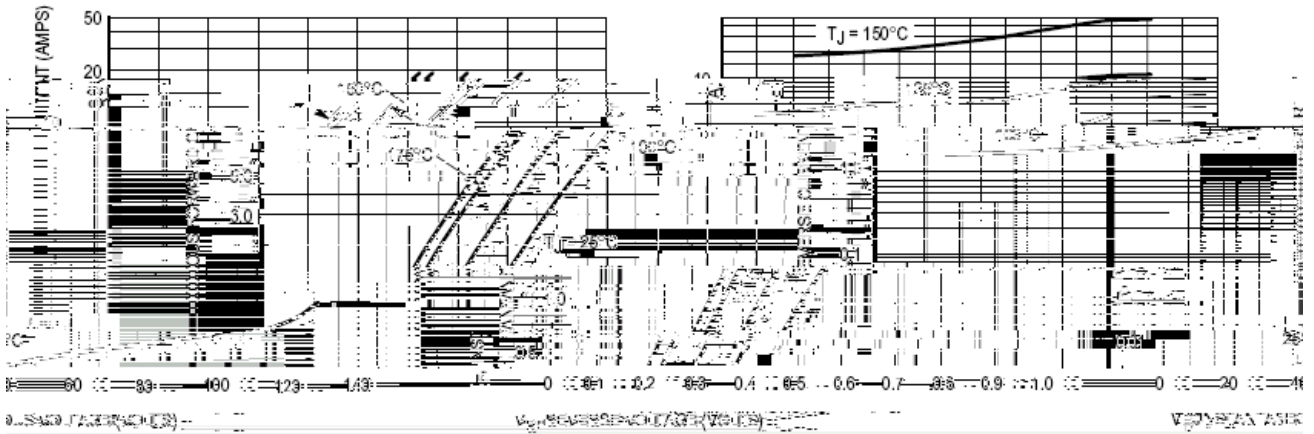


Figure 1. Typical Forward Voltage

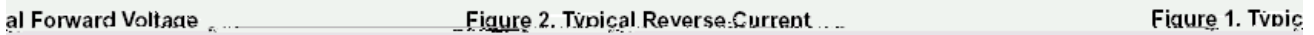


Figure 2. Typical Reverse Current

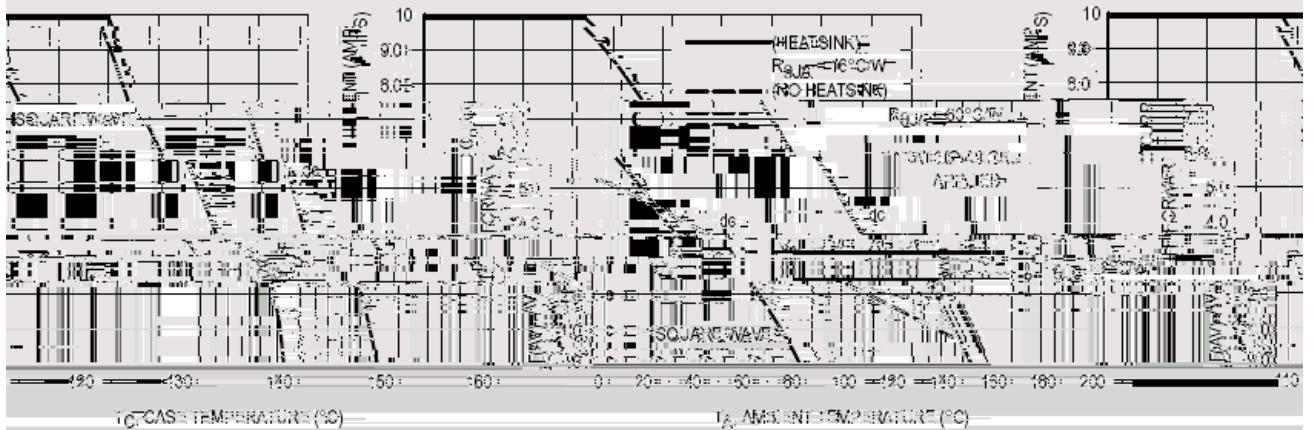


Figure 3. Current Derating, Case



Figure 4. Current Derating, Ambient

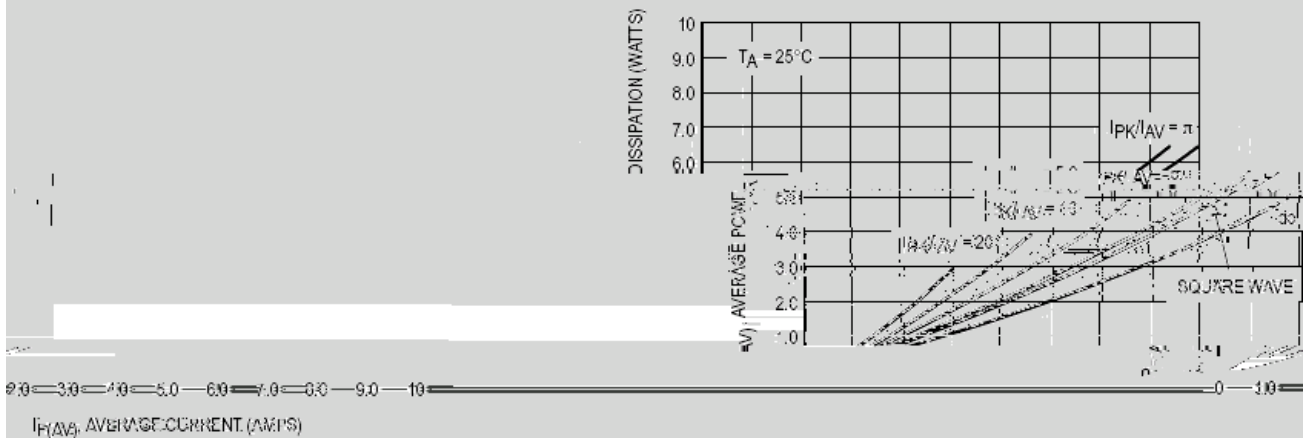


Figure 5. Forward Power Dissipation

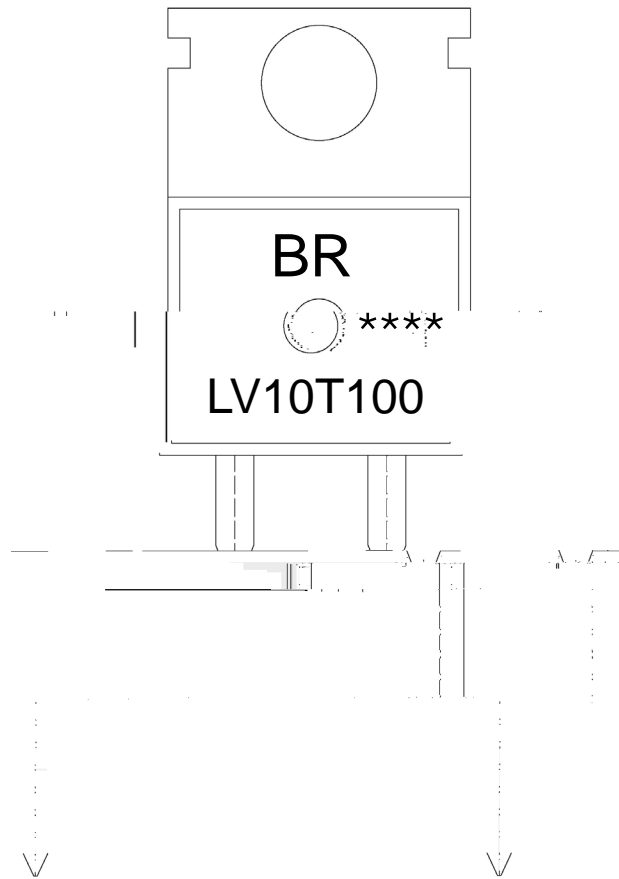
Fig

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DATA SHEET

/ Marking Instructions



BR

LV10T100

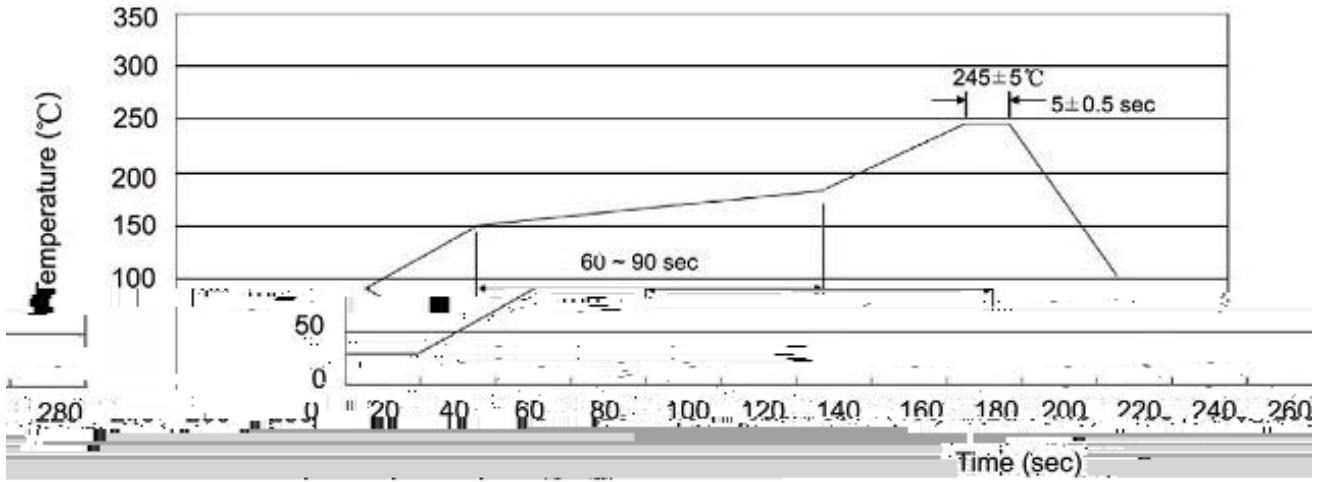
Note:

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)		
	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 ³)		
	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