

# BRLV10100RA

Rev. B May.-2018



TO-220

O03 Tm.06ttky D 79.8T

**/ 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	$R_{Jc}$	2.8	/W
Junction and Storage Temperature Range	$T_j$ $T_{stg}$	-40 +150	

**/ Electrical Characteristics(Ta=25 )**

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

/Notes

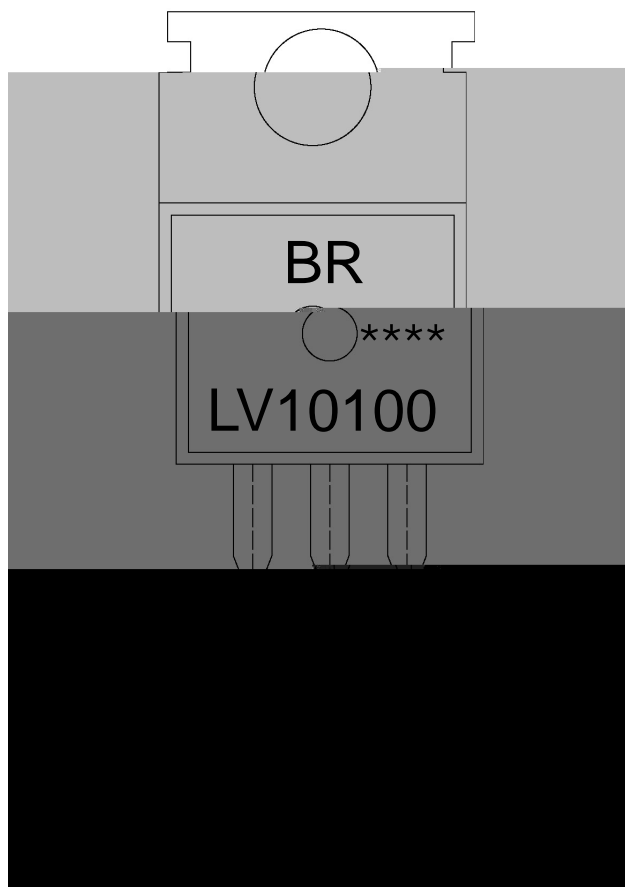
1. /Short duration pulse test used to minimize self-heating effect.
2. / Unless otherwise noted, values for the parameters of a single chip

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**DATA SHEET**

/ Marking Instructions



BR

LV10100

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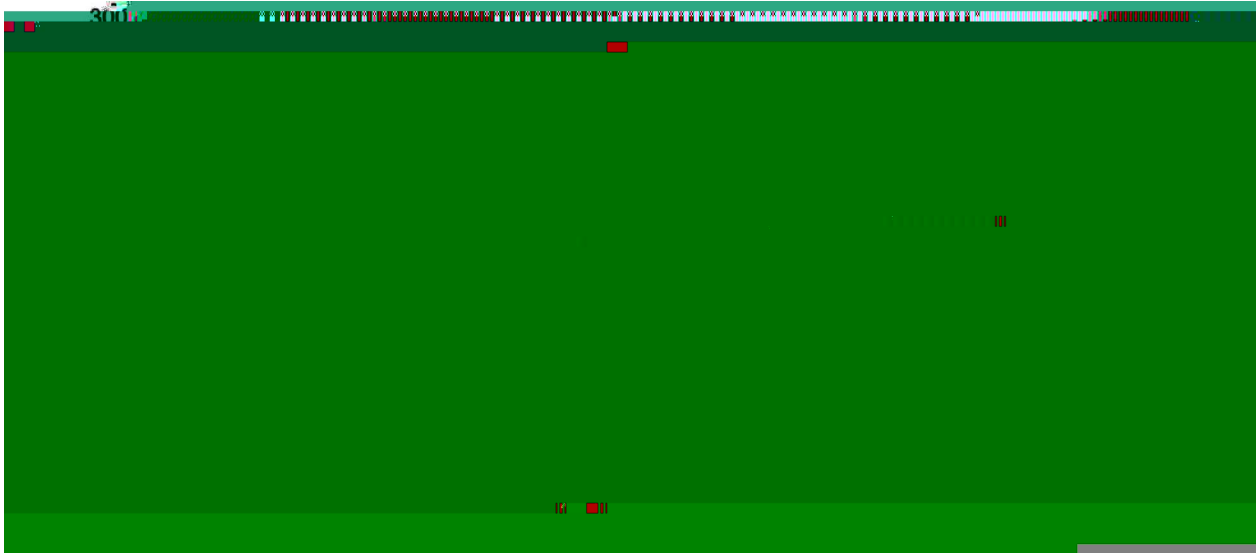
Note:

BR: Company Code

LV10100 Product Type.

\*\*\*\*: Lot No. Code, code change with Lot No.

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



- |   |       |     |           |        |   |                                      |
|---|-------|-----|-----------|--------|---|--------------------------------------|
| 1 | 25    | 150 | 60        | 90sec; | Note:                                   | 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	Units		Dimension (unit mm <sup>3</sup> )
	Units/Bag /	Bags/Inner Box /	