

# LV10100CT

Rev. H Oct.-2018



DATA SHEET

## / Descriptions

Schottky Barrier Diode in a TO-220 Plastic Package.

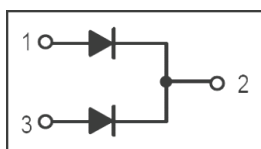
## / Features

Low forward voltage drop, low power losses, High efficiency operation.

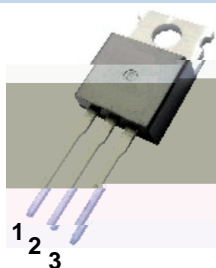
## / Applications

For use in high frequency inverters, switching power supplies, freewheeling diodes, OR-ing diode, dc-to-dc converters and reverse battery protection.

## / Equivalent Circuit



## / Pinning



PIN1 Anode PIN 2 Cathode PIN 3 Anode

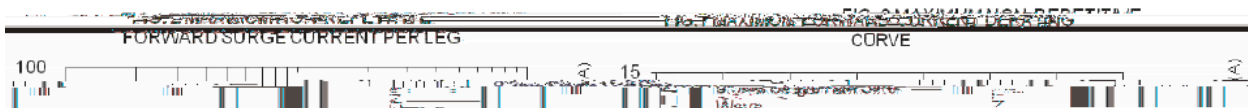
## / h<sub>FE</sub> Classifications & Marking

See Marking Instructions.

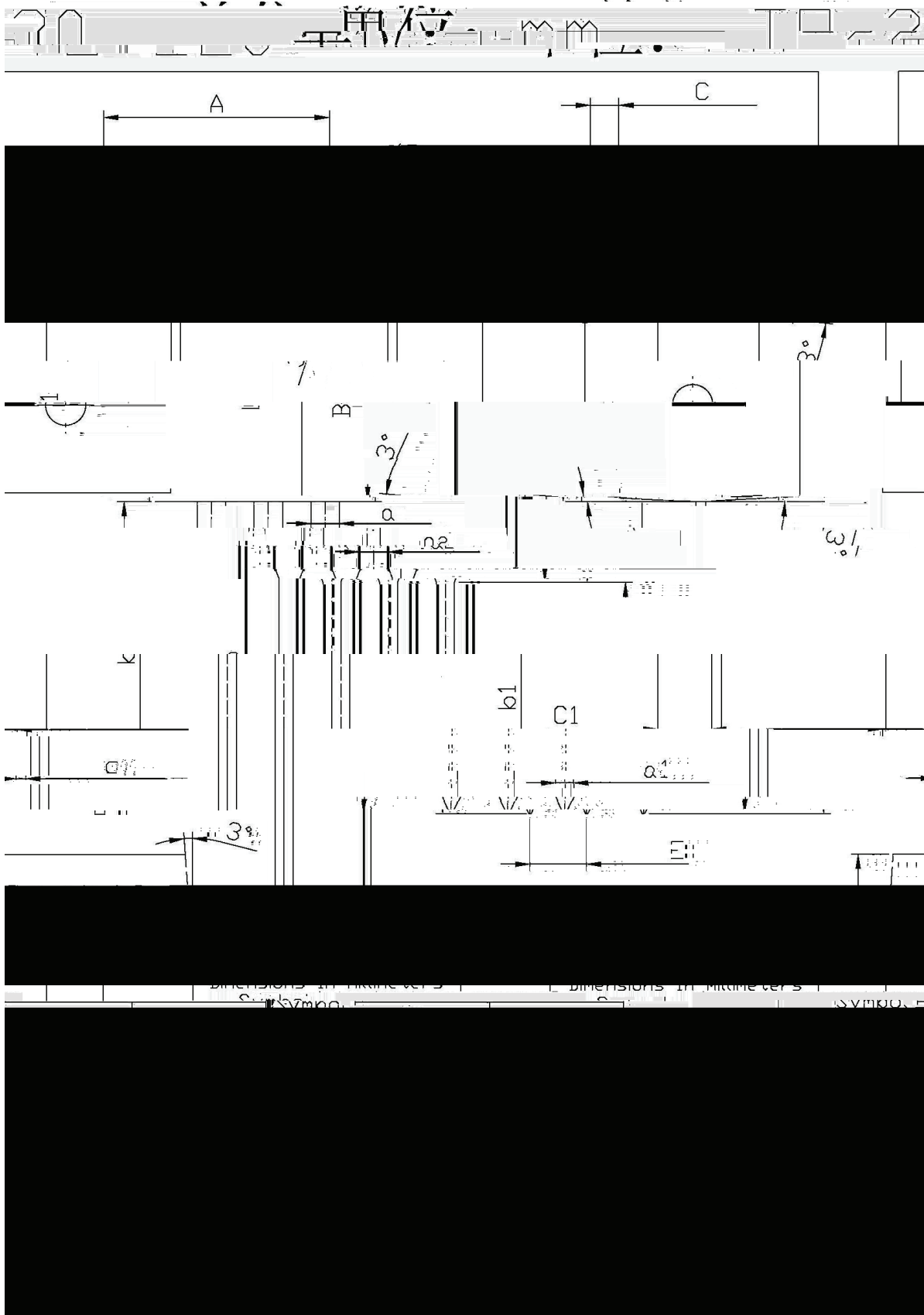
Parameter	Symbol	Rating	Unit
Recurrent Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$V_{RRM}$ , $V_{RSM}$ $V_{DC}$	100	V
RMS Reverse Voltage	$V_{RMS}$	70	V
Average forward rectified current	$I_{F(AV)}$	2× 5	A
Non Repetitive Peak Surge Current	$I_{FSM}$	80	A
Thermal Resistance Junction to Case	$R_{Jc}$	2.8	/W
Junction and Storage Temperature Range	$T_j$ $T_{stg}$	-40 +150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Breakdown Reverse Voltage	$V_{BR}$	$I_R=1mA(T_a=25^\circ C)$	100			V
Forward Voltage	$V_F$	$I_F=3A(T_a=25^\circ C)$		0.59		V
		$I_F=5A(T_a=25^\circ C)$		0.69	0.75	V
		$I_F=3A(T_a=125^\circ C)$		0.53		V
		$I_F=5A(T_a=125^\circ C)$		0.61	0.65	V
Instantaneous Reverse Current	$I_R$	$V_R=100V(T_a=25^\circ C)$		5.0	50	$\mu A$
		Note 1 $V_R=100V(T_a=125^\circ C)$		3.0	10	mA

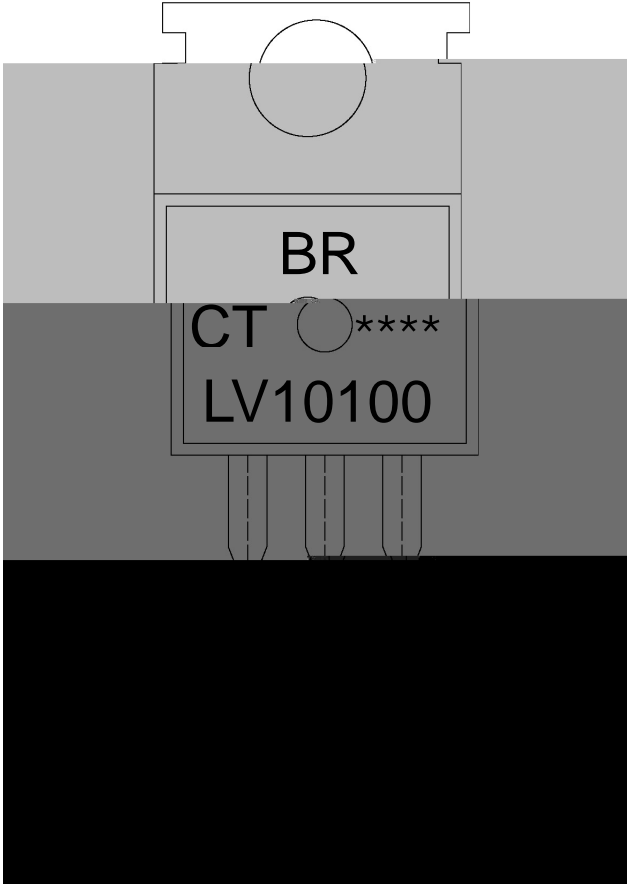
**/ Electrical Characteristic Curve**



/ Package Dimensions

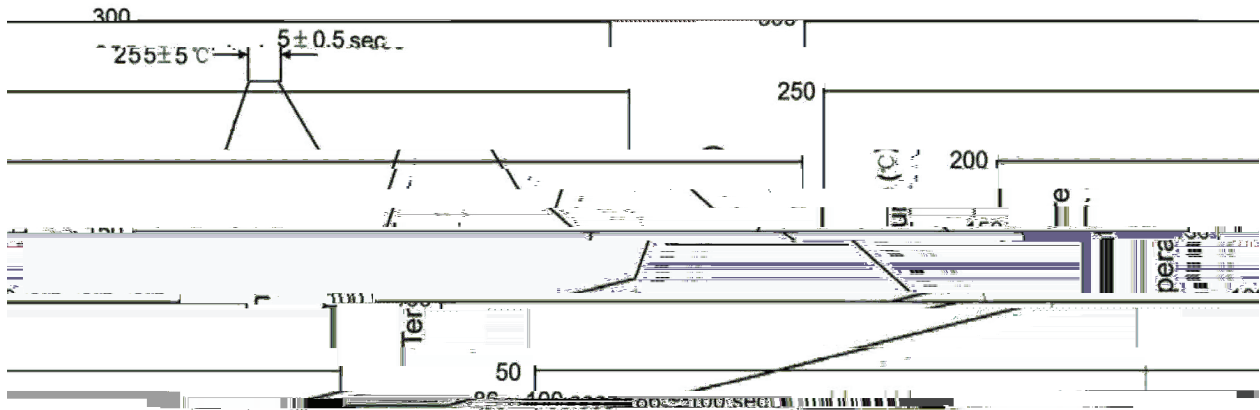


**/ Marking Instructions**



- Note:
- BR: Company Code
  - LV10100 Product Type.
  - CT: Internal Structure
  - \*\*\*\*: Lot No. Code, code change with Lot No.

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



Note:

- |   |     |     |    |          |   |
|---|-----|-----|----|----------|---|
| 1 | 25  | 150 | 60 | 90sec;   | 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 /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
TO-220/F	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	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180

/ Notices