LV10100CT

Rev. H Oct.-2018

DATA SHEET

/ Descriptions

TO-553 ᒪ

Schottky Barrier Diode in a TO-220 Plastic Package.

/ Features

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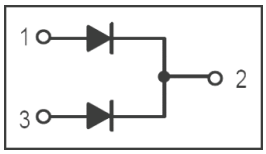
Low forward voltage drop,low power losses,High efficiency operation.

/ Applications

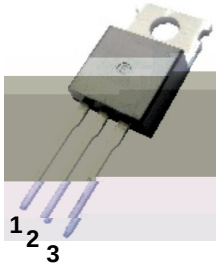
ᴖ إ ڭ ᴧ OR-ing GF-GF ج

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

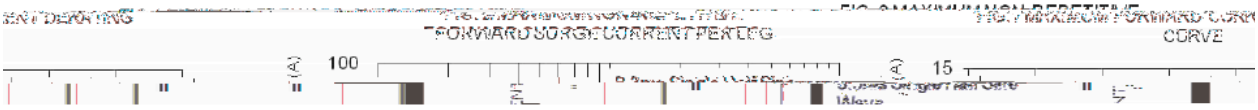
/ h_{FE} Classifications & Marking

ȣ ب See Marking Instructions.

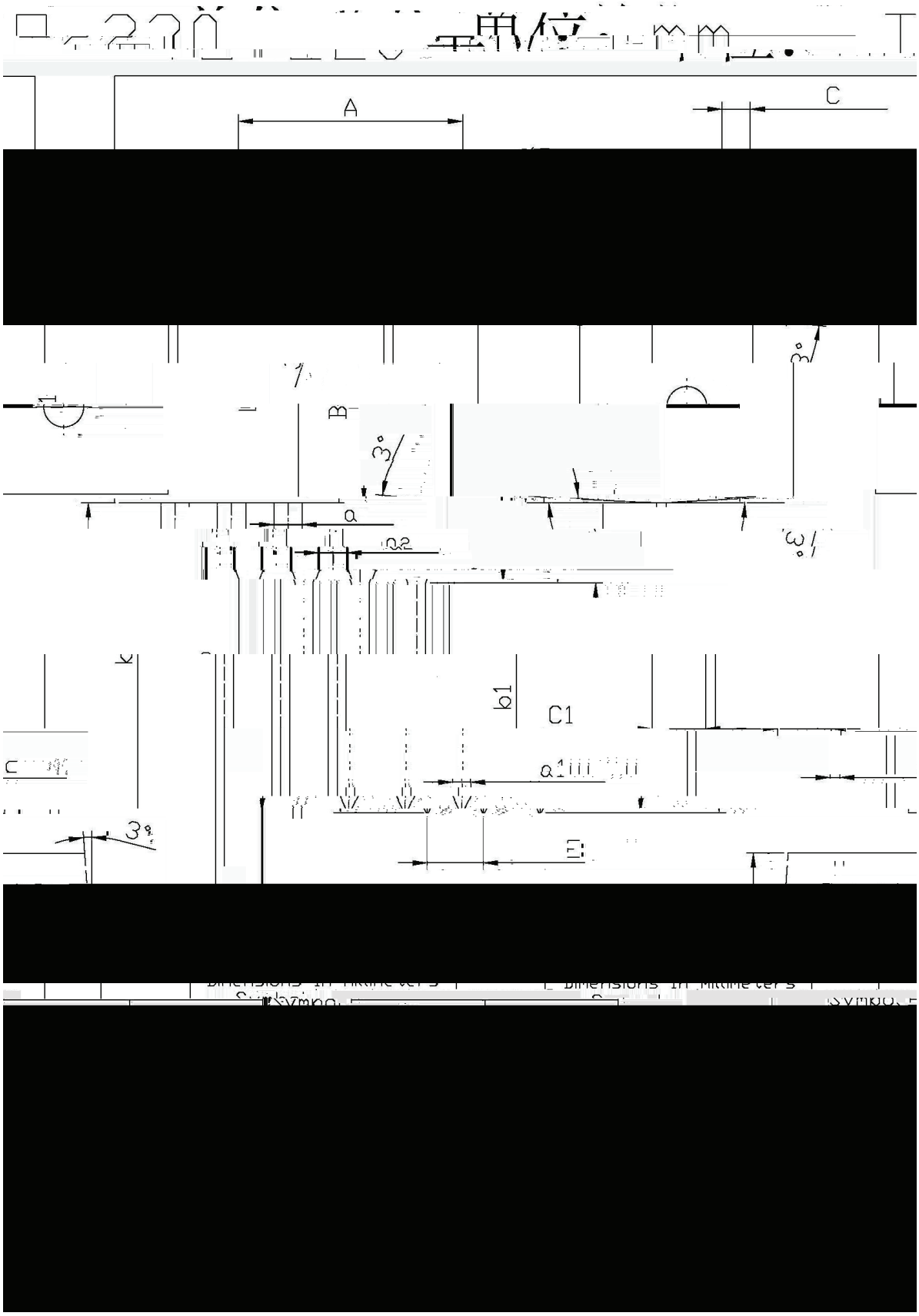
Parameter	Symbol	Rating	Unit
Recurrent Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$V_{RRM,}$ V_{RSM} V_{DC}	100	V
RMS Reverse Voltage	V_{RMS}	70	V
Average forward rectified current	$I_{F(AV)}$	2 × 5	A
Non Repetitive Peak Surge Current	I_{FSM}	80	A
Thermal Resistance Junction to Case	$R_{\theta Jc}$	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(Ta=25)	100			V
Forward Voltage	V_F	I_F =3A(Ta=25)		0.59		V
		I_F =5A(Ta=25)		0.69	0.75	V
		I_F =3A(Ta=125)		0.53		V
		I_F =5A(Ta=125)		0.61	0.65	V
Instantaneous Reverse Current	I_R	V_R=100V(Ta=25)		5.0	50	μA
	Note 1	V_R=100V(Ta=125)		3.0	10	mA

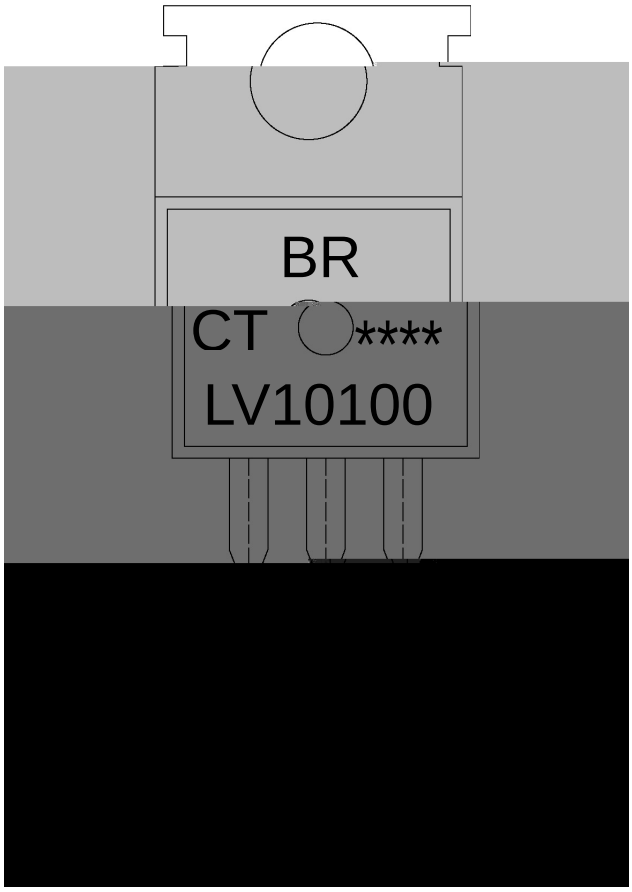
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



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LV43433

FT:

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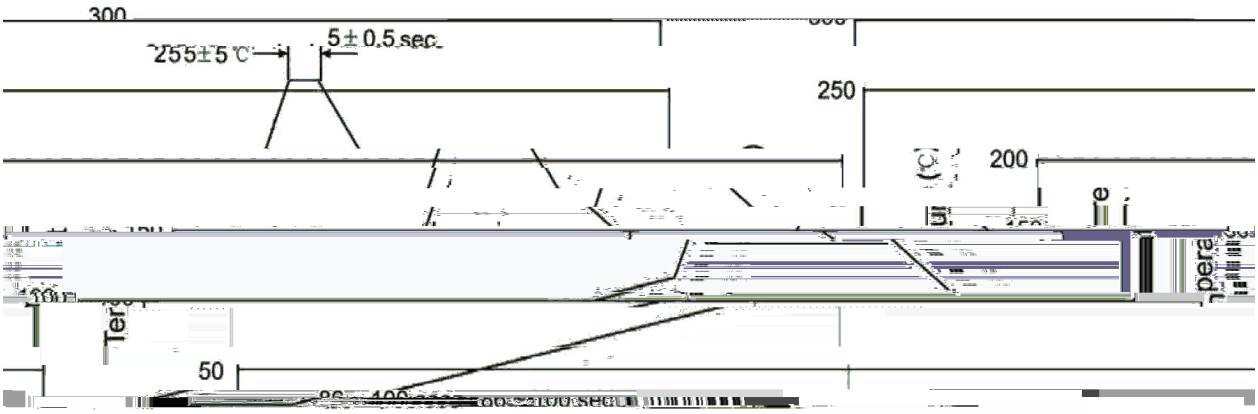
Note:

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

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



ب		Note:
1 أ	25 150 ژ 60 90sec;	1.Preheating:25~150 , Time:60~90sec.
2	255±5 ژ ﻫ 5±0.5sec;	2.Peak Temp.:255±5 , Duration:5±0.5sec.
3	ھ 2 10 /sec.	3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

270±5	ژ 10±1 sec.	Temp.:270±5	Time:10±1 sec

/ Packaging SPEC.

Ł / BULK

Package Type	Units					Dimension		(unit mm³)
	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

Ł / TUBE

Package Type	Units					Dimension		(unit mm³)
	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