/ Descriptions

TO-220F

Schottky Diode in a TO-220F Plastic Package.

/ Features

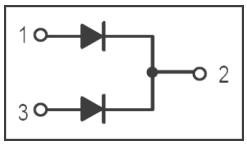
Low forward voltage drop,low power losses,High efficiency operation.

/ Applications

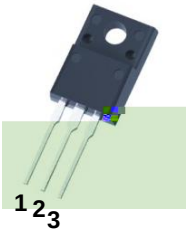
OR-ing DC-DC

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

See Marking Instructions.

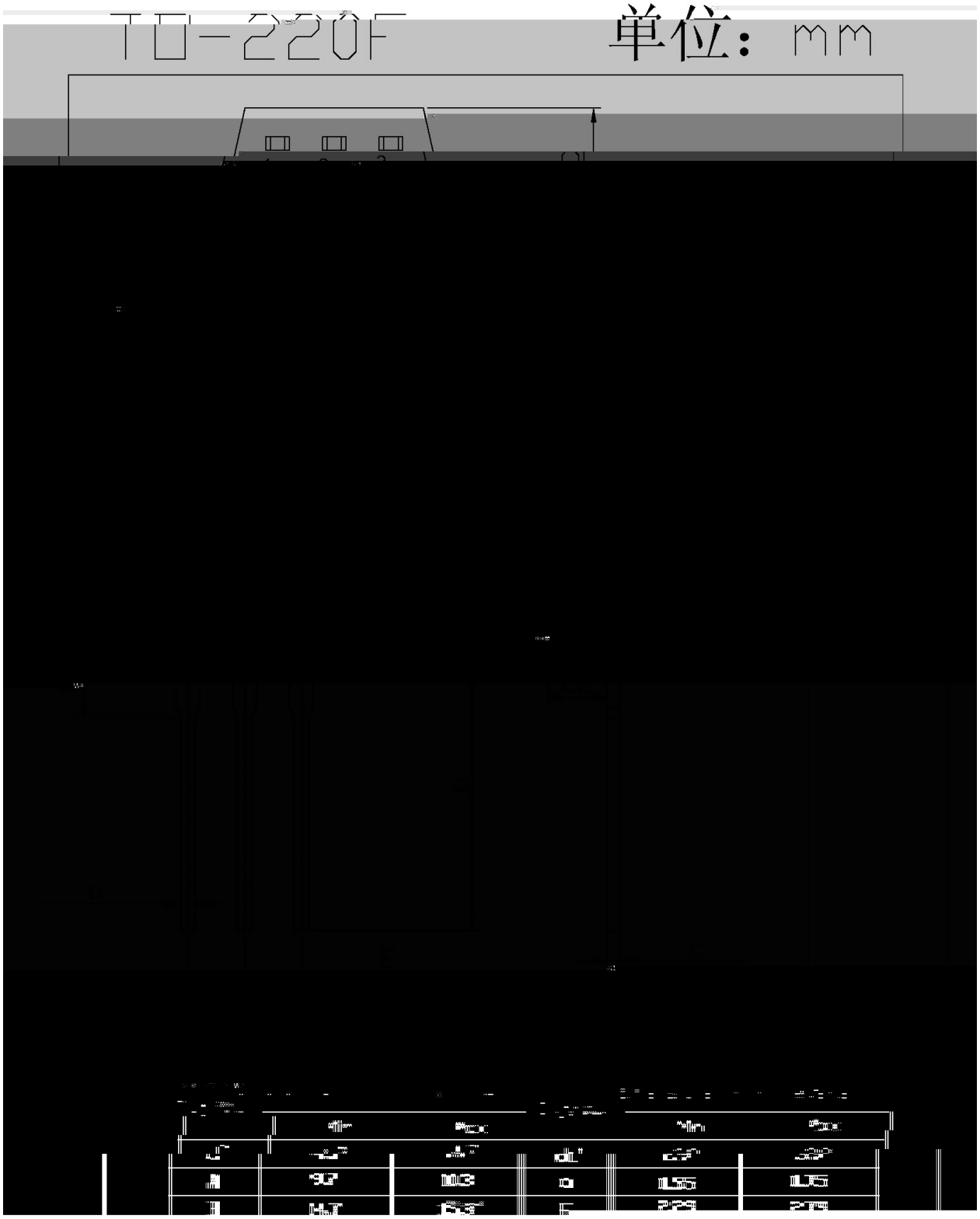
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RM} V_{RSM} V_{DC}	100	V
RMS Voltage	V_{RMS}	70	V
Average Rectified Forward Current	$I_{F(AV)}$	2 × 5	A
Non Repetitive Peak Surge Current	I_{FSM}	80	A
Thermal Resistance Junction to Case	R_{Jc}	4.5	/W
Junction and Storage Temperature Range	T_j T_{stg}	-40 +150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Breakdown Voltage	V_{BR}	I_R=1mA(Ta=25)	100			V
Forward Voltage	V_F	I_F =3A(Ta=25)		0.59	0.65	V
		I_F =3A(Ta=125)		0.53	0.60	V
		I_F =5A(Ta=25)		0.69	0.75	V
		I_F =5A(Ta=125)		0.61	0.65	V
Instantaneous Reverse Current	I_R Note 1	V_R=100V(Ta=25)			50	A
		V_R=100V(Ta=125)		3.0	10	mA

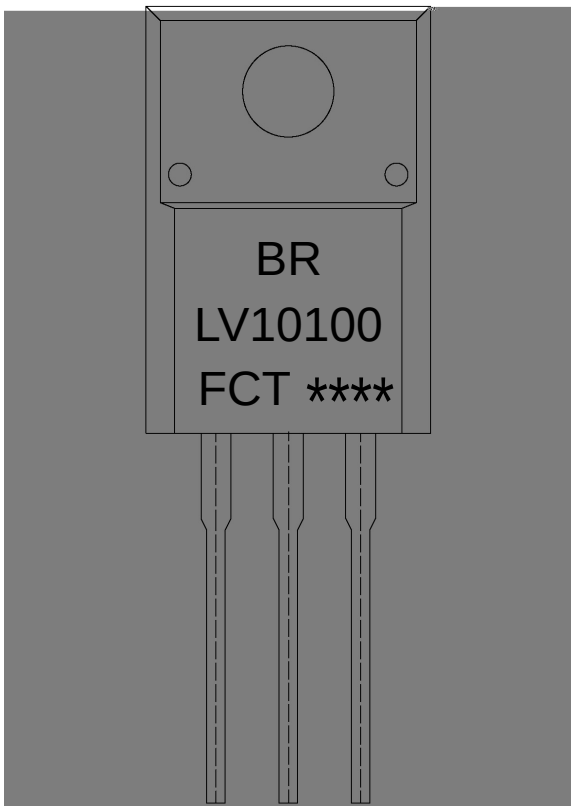
/Notes

1. א ”Ḥ Б Ĭ Ţ ŋ . Ĭ Ń

/ Package Dimensions



/ Marking Instructions



BR

LV10100

F:

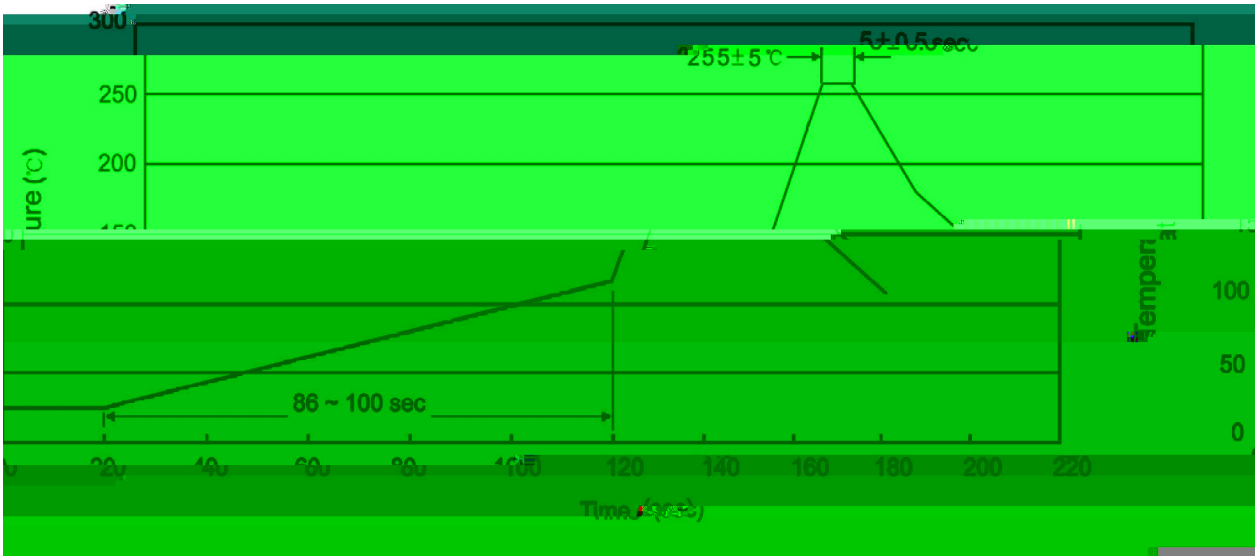
CT:

****

Note:

BR:	Company Code
LV10100:	Product Type Code.
F	Package Code
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 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

/ TUBE

Package Type	Units		Dimension	(unit mm³)
	Units/Tube	50 T /		