

/ Descriptions

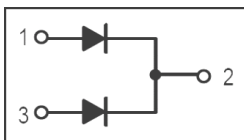
Schottky Diode in a TO-220F Plastic Package.

/ 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_{FE} Classifications & Marking

See Marking Instructions.

/ Absolute Maximum Ratings($T_a=25^\circ\text{C}$)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RM} V_{RSM} V_{DC}	200	V
RMS Voltage	V_{RMS}	140	V
Average Rectified Forward Current	$I_{F(AV)}$	2×15	A
Non Repetitive Peak Surge Current	I_{FSM}	200	A
Thermal Resistance Junction to Case	$R_{\theta JC}$	4.6	/W
Junction and Storage Temperature Range	T_j T_{stg}	-40 +150	

/ Electrical Characteristics($T_a=25^\circ\text{C}$)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Breakdown Voltage	V_{BR}	$I_R=1\text{mA}(T_a=25^\circ\text{C})$	200			V
Forward Voltage	V_F	$I_F=5\text{A}(T_a=25^\circ\text{C})$		0.73	0.85	V
		$I_F=10\text{A}(T_a=25^\circ\text{C})$		0.80	0.95	V
		$I_F=15\text{A}(T_a=25^\circ\text{C})$		0.92	1.15	V
		$I_F=5\text{A}(T_a=125^\circ\text{C})$		0.58		V
		$I_F=10\text{A}(T_a=125^\circ\text{C})$		0.66		V
		$I_F=15\text{A}(T_a=125^\circ\text{C})$		0.71	0.85	V
Instantaneous Reverse Current	I_R Note 1	$V_R=200\text{V}(T_a=25^\circ\text{C})$		4	20	μA
		$V_R=200\text{V}(T_a=125^\circ\text{C})$		5	10	mA

/Notes

1.
effect.

/Short duration pulse test used to minimize self-heating

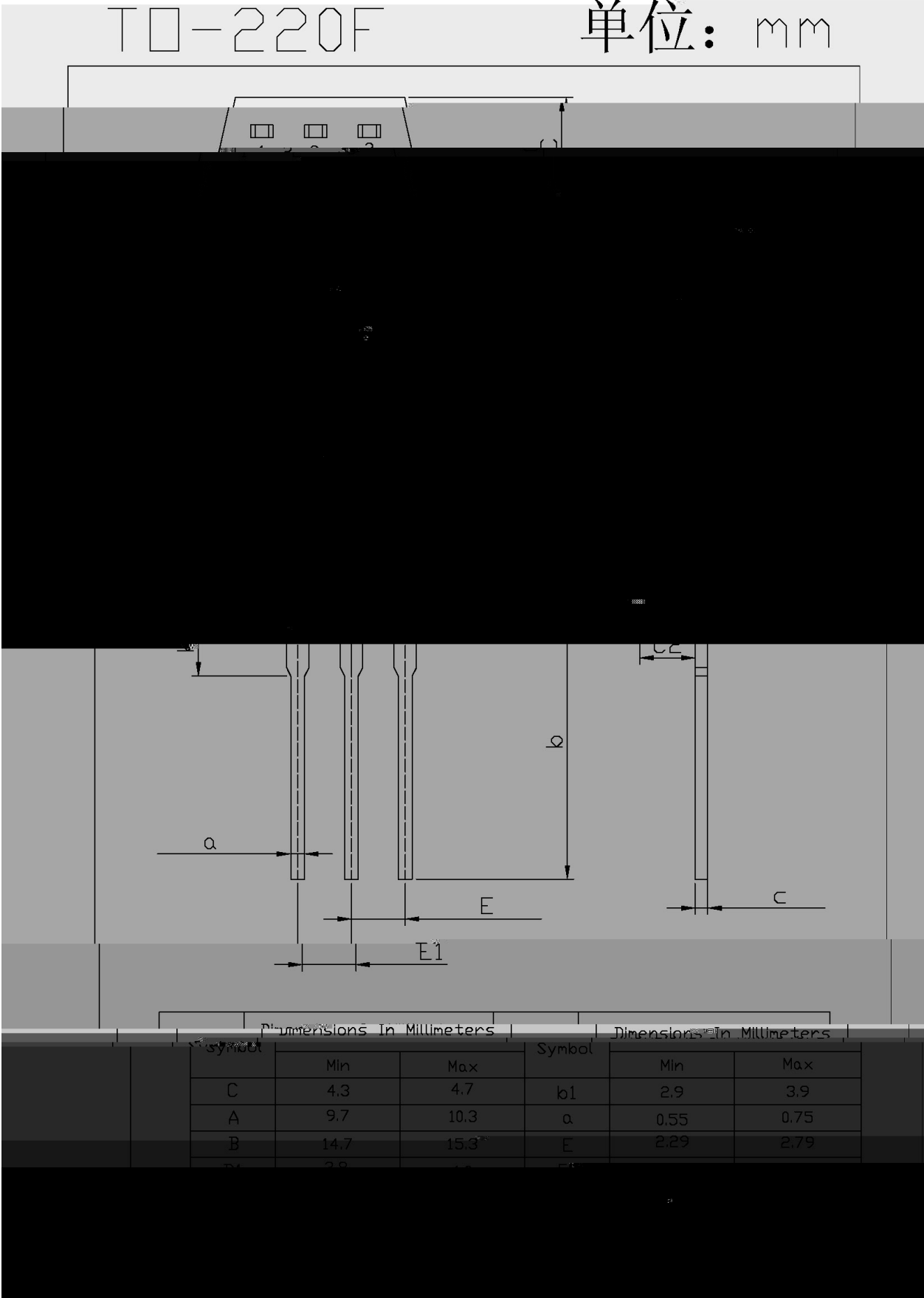
2.
single chip

/ Unless otherwise noted, values for the parameters of a

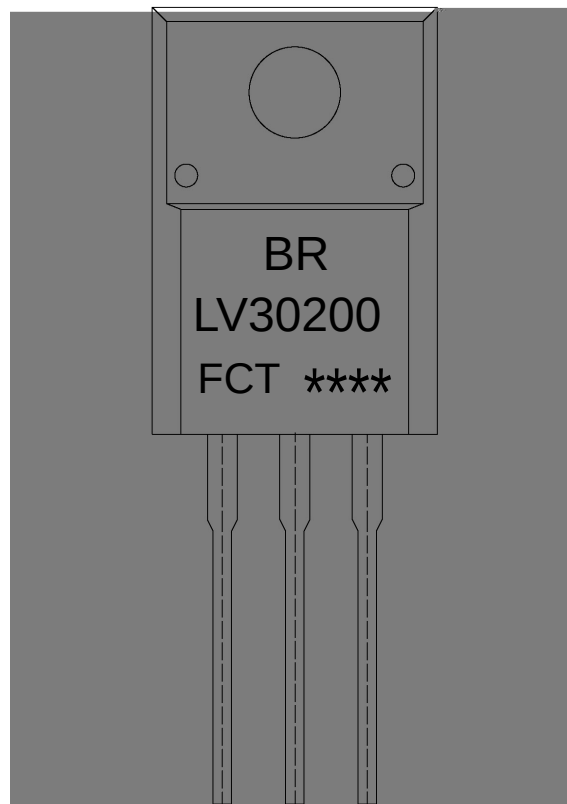
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



Note:

BR:

Company Code

Product Type.

F:

Package Code

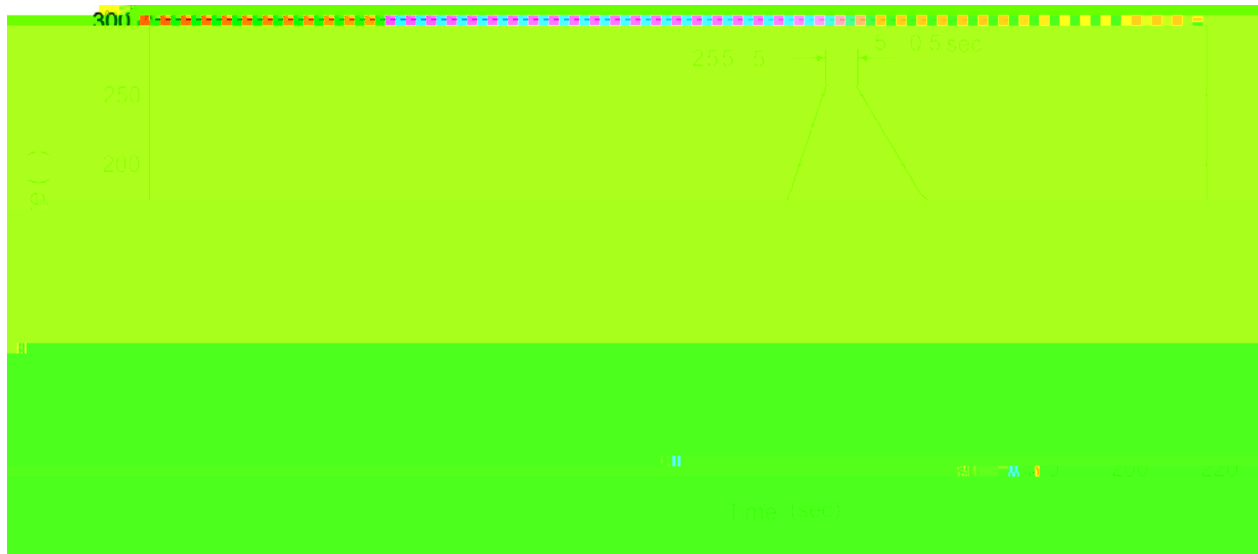
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Internal Structure

****:

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 ³)
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	