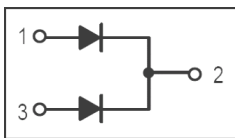


Schottky Barrier Diode in a TO-220F Plastic Package.

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

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



PIN1: Anode

PIN 2: Cathode

PIN 3: Anode

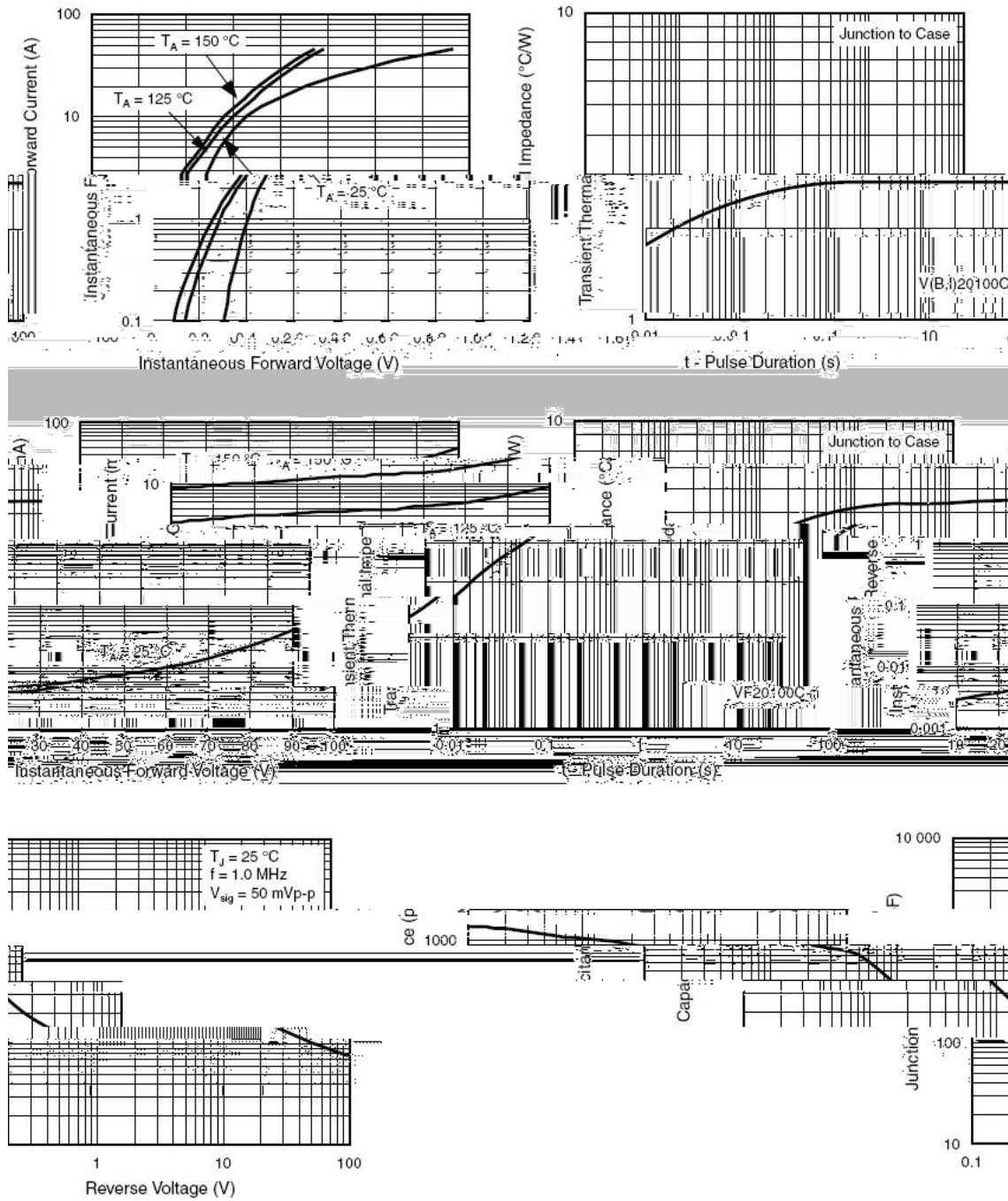
See Marking Instructions.

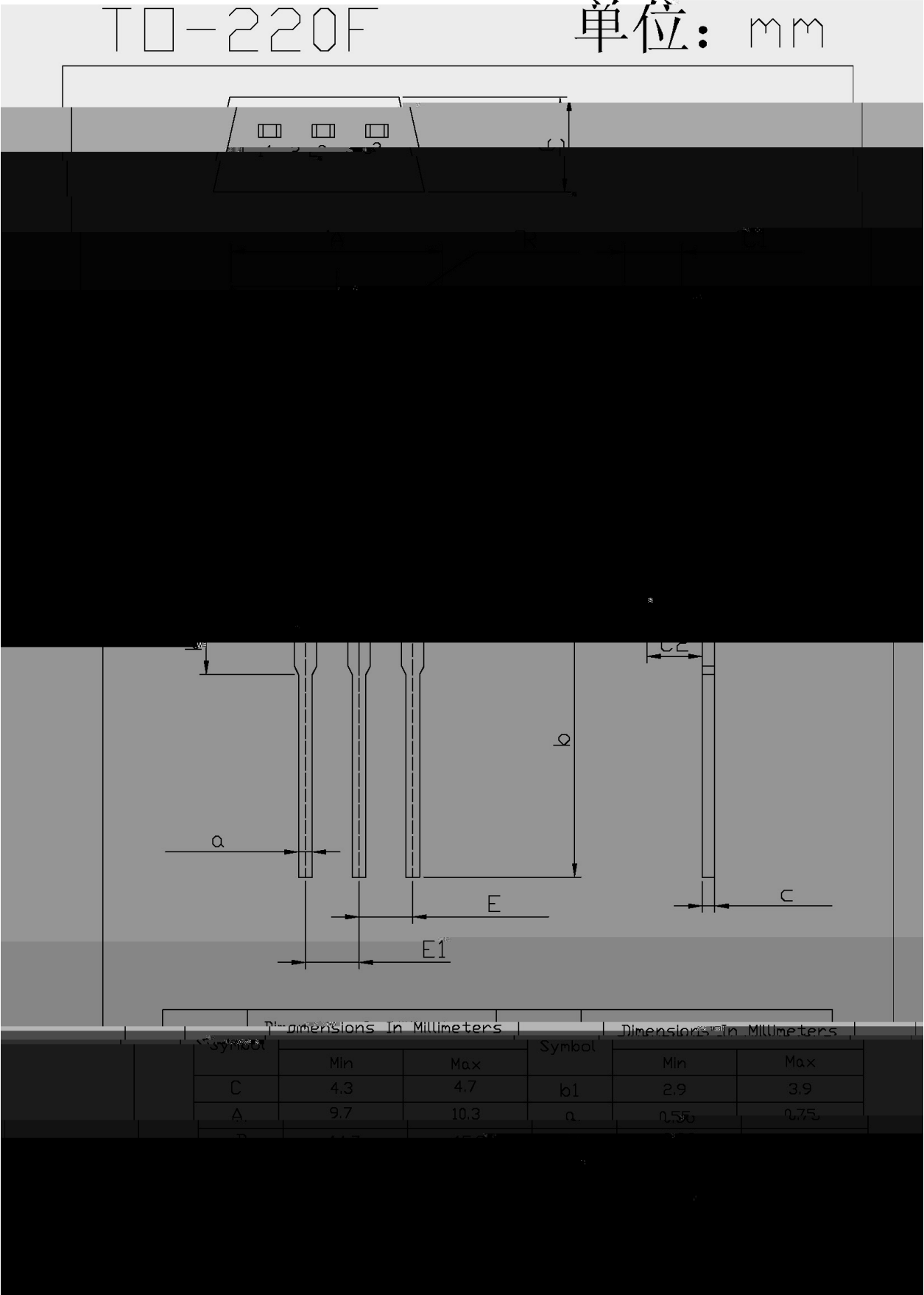
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RM}	100	V
Working Peak Reverse Voltage	V_{RSM}		
Average Rectified Forward Current	$I_{F(AV)}$	2×15	A
Non Repetitive Peak Surge Current	I_{FSM}	150	A
Thermal Resistance Junction to Case	$R_{\theta Jc}$	4.6	/W
Junction and Storage Temperature Range	T_j T_{stg}	-40~+150	

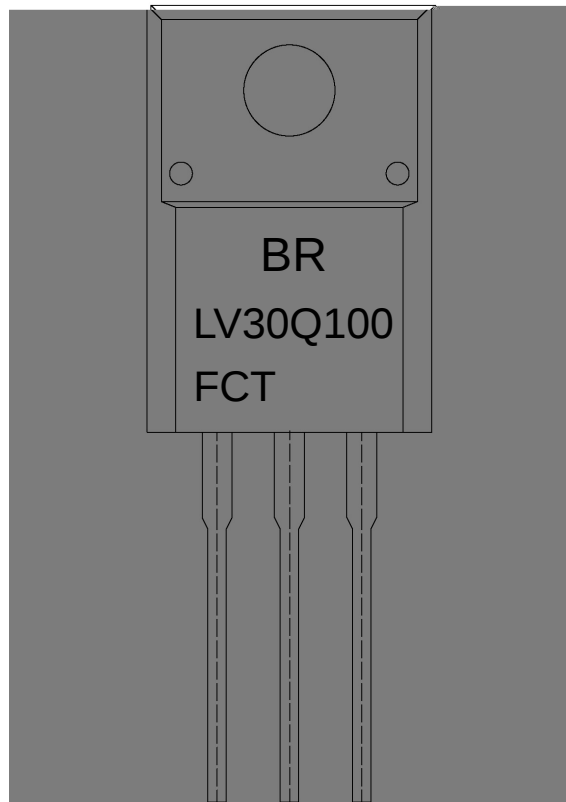
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Breakdown Voltage	V_{BR}	$I_R=1mA(T_a=25^\circ C)$	100			V
Forward Voltage	V_F	$I_F=5A(T_a=25^\circ C)$		0.54		V
		$I_F=1A(T_a=25^\circ C)$			0.765	V
		$I_F=5A(T_a=125^\circ C)$		0.50		V
		$I_F=15A(T_a=125^\circ C)$			0.75	V
Instantaneous Reverse Current	I_R (Note 1)	$V_R=100V(T_a=25^\circ C)$			150	μA
		$V_R=100V(T_a=125^\circ C)$			150	mA

Short duration pulse test used to minimize self-heating effect.

Unless otherwise noted, values for the parameters of a single chip







Note:

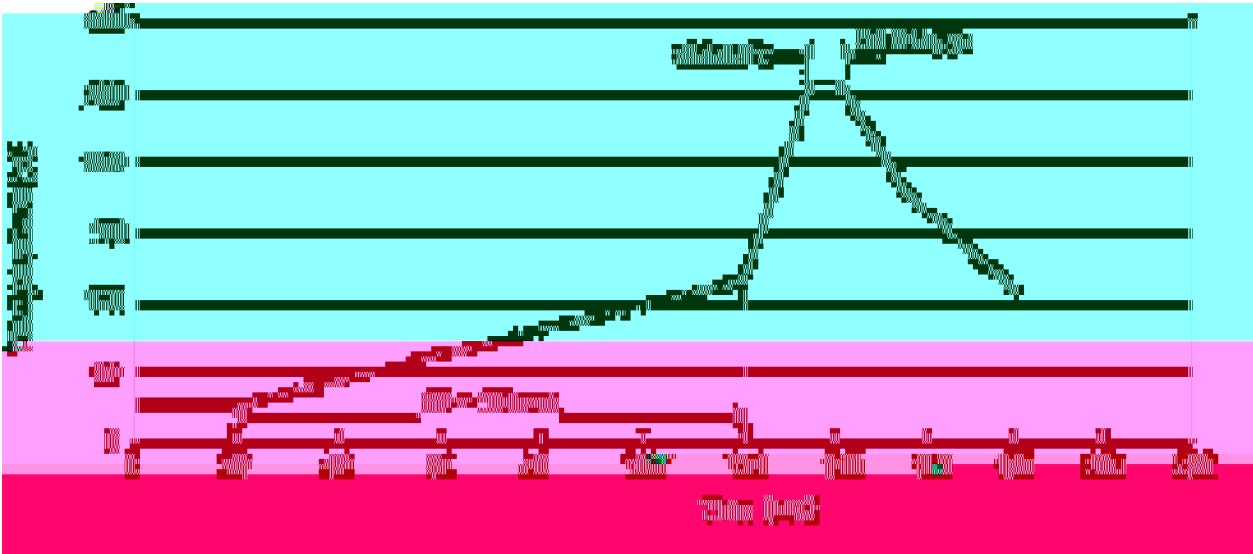
BR: Company Code

LV30Q100: Product Type.

CT: Internal Structure

F: Package Code

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



- Note:
1. Preheating: 25~150 , Time: 60~90sec.

2. Peak Temp.: 255 5 , Duration: 5 0.5sec.

3. Cooling Speed: 2~10 /sec.

- 1

25 150

60 90sec;
- 2

255 5

5 0.5sec;
- 3

2 10 /sec.

270 5

10 1 sec.

Temp.: 270±5

Time: 10±1 sec

/ BULK

Package Type	Units					Dimension (unit mm ³)		

/ TUBE

Package Type	Units					Dimension (unit mm ³)		