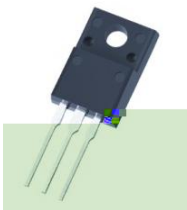
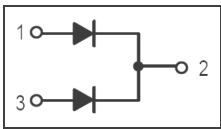


Schottky Barrier Diode in a TO-220F Plastic Package.

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 Working Peak Reverse Voltage DC Blocking Voltage	$V_{RM}$ $V_{RSM}$ $V_{DC}$	150	V
RMS Voltage	$V_{RMS}$	105	V
Average Rectified Output Current	$I_{F(AV)}$	2× 20	A
Non Repetitive Peak Surge Current	$I_{FSM}$	300	A
Thermal Resistance Junction to Case	$R_{Jc}$	4.0	/W
Junction and Storage Temperature Range	$T_j$ $T_{stg}$	-40 +150	

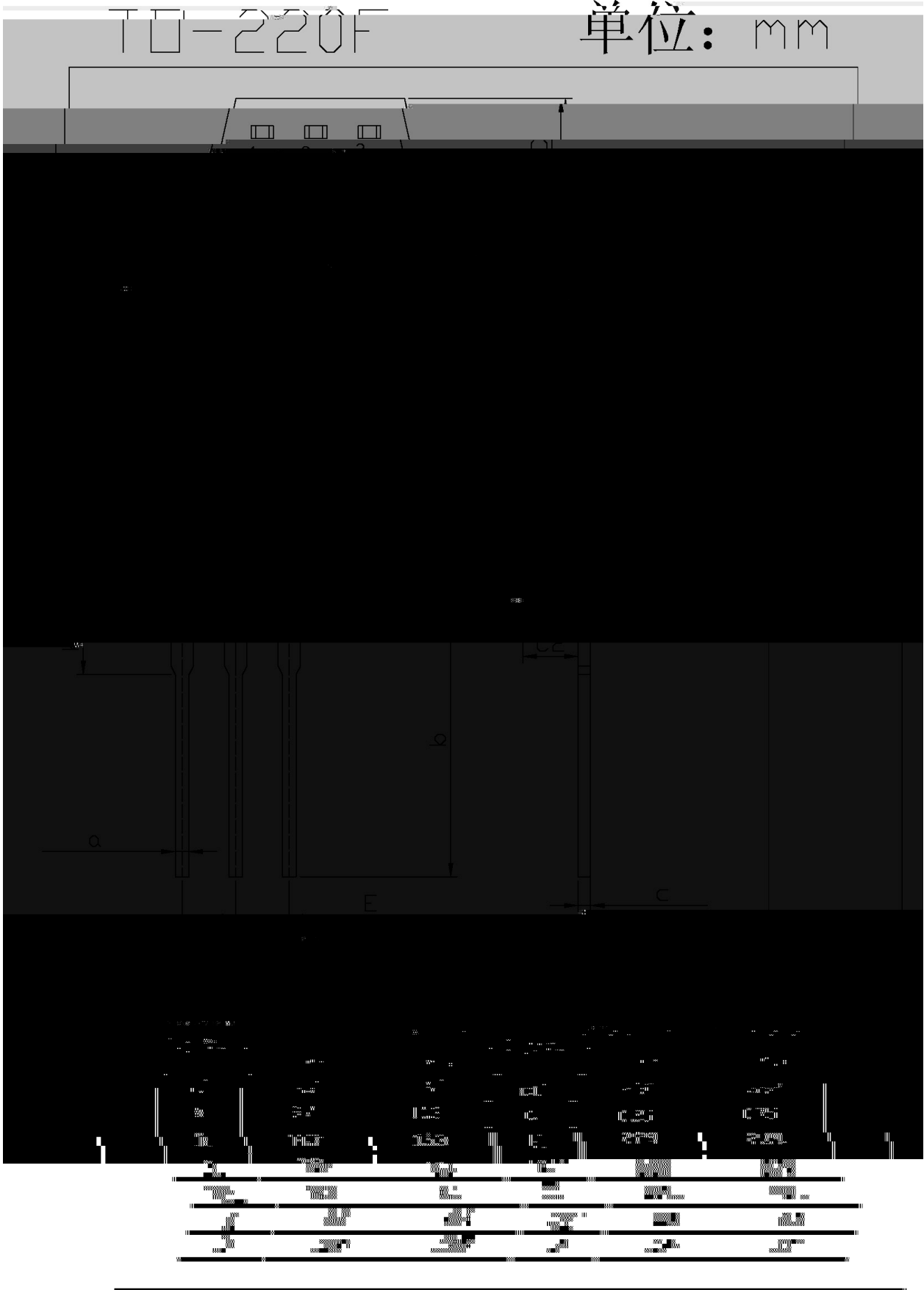
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Breakdown Voltage	$V_{BR}$	$I_R=1mA(T_a=25^\circ C)$	150			V
Forward Voltage	$V_F$	$I_F=5A(T_a=25^\circ C)$		0.68		V
		$I_F=10A(T_a=25^\circ C)$		0.76		V
		$I_F=20A(T_a=25^\circ C)$		0.89	1.05	V
		$I_F=5A(T_a=125^\circ C)$		0.56		V
		$I_F=10A(T_a=125^\circ C)$		0.63		V
		$I_F=20A(T_a=125^\circ C)$		0.73	0.85	V
Instantaneous Reverse Current	$I_R$ Note 1	$V_R=150V(T_a=25^\circ C)$		3.0	30	$\mu A$
		$V_R=150V(T_a=125^\circ C)$		5.0	15	mA

/Notes

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

2. / Unless otherwise noted, values for the parameters of a h







Note:

BR:

Company Code

LV40150

Product Type

F:

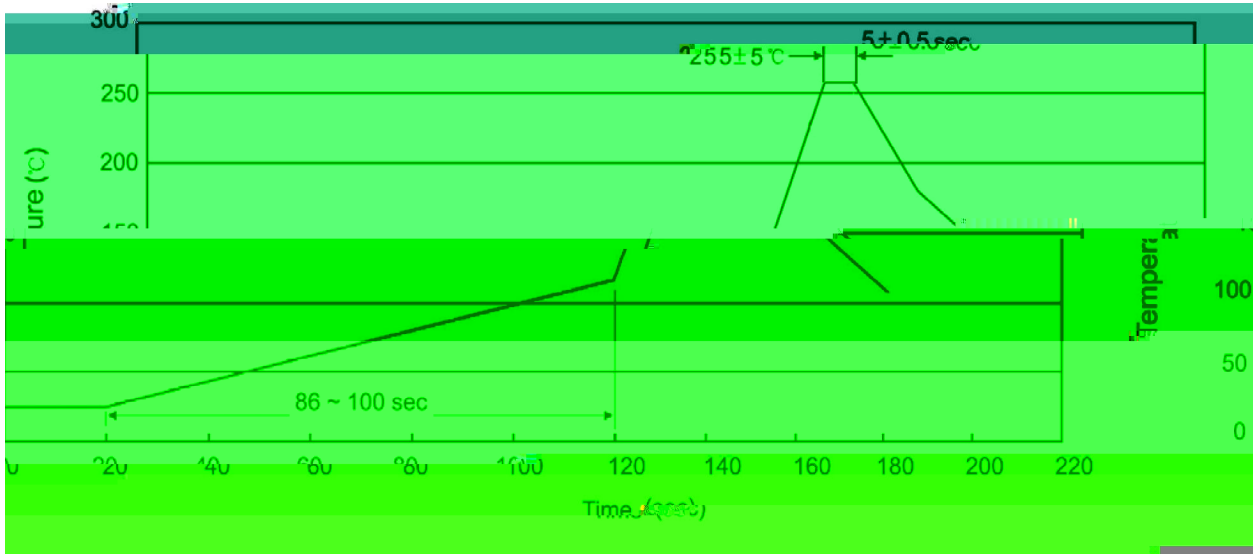
Package Code

CT:

Internal Structure

\*\*\*\*:

Lot No. Code, code change with Lot No.


**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.            |

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

## / 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