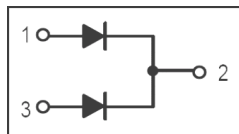


Schottky Barrier Diode in a TO-220 Plastic Package.

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

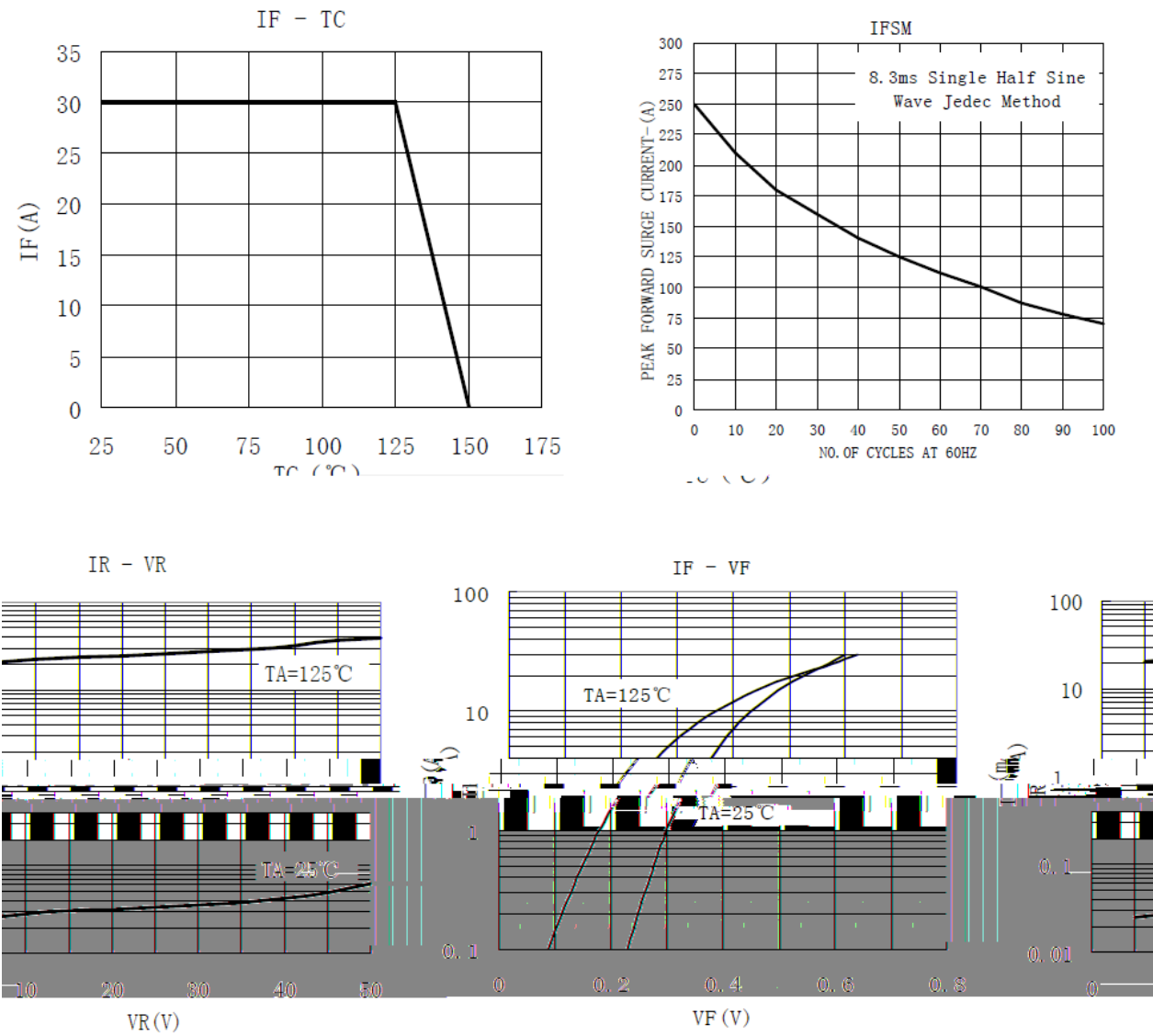
See Marking Instructions.

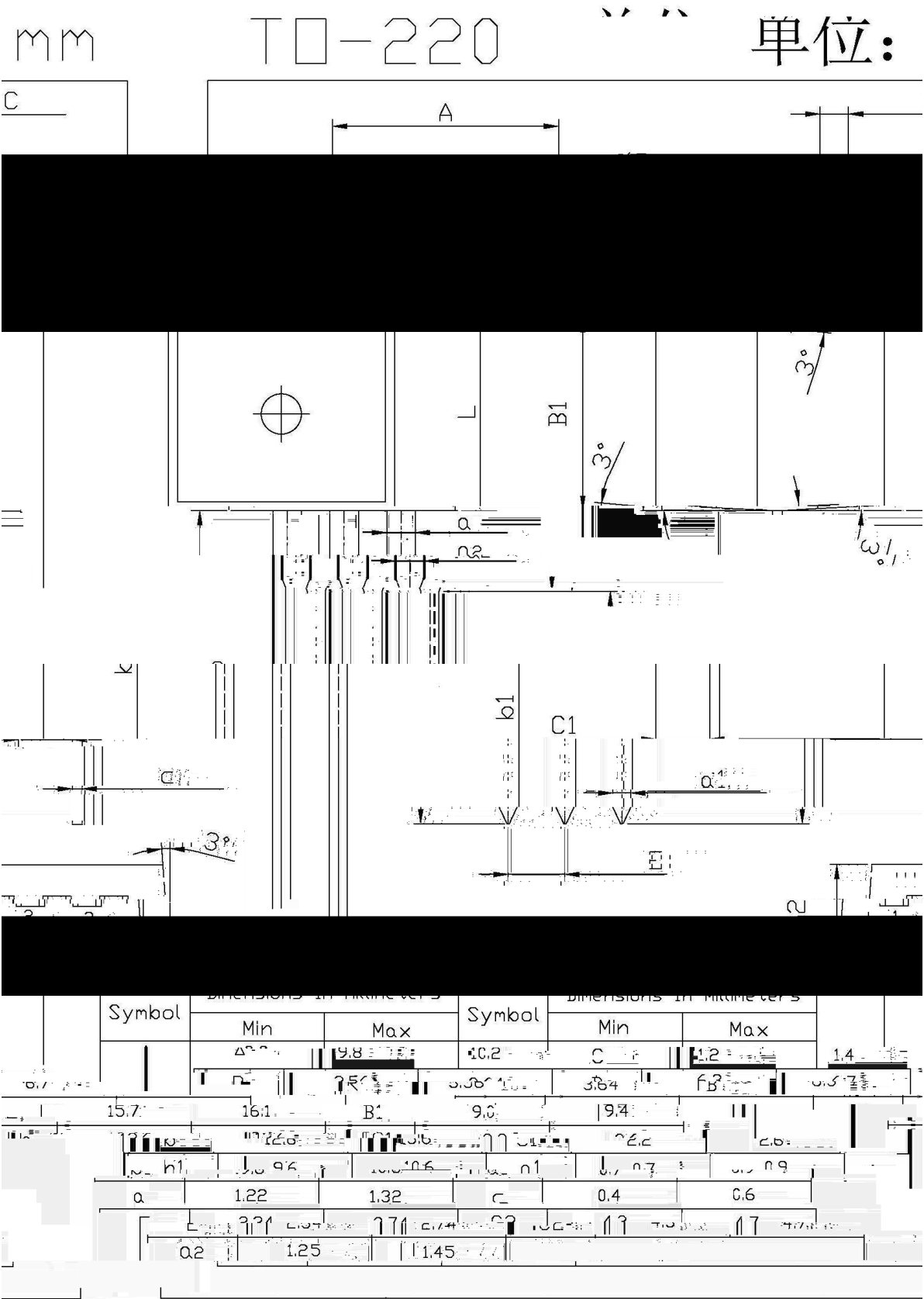
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	45	V
Average Rectified Output Current	$I_{F(AV)}$	2×15	A
Non Repetitive Peak Surge Current	I_{FSM}	250	A
Thermal Resistance Junction to Case	$R_{\theta Jc}$	2.8	$^{\circ}C/W$
Junction and Storage Temperature Range	$T_j \quad T_{stg}$	$-40 \sim +150$	$^{\circ}C$

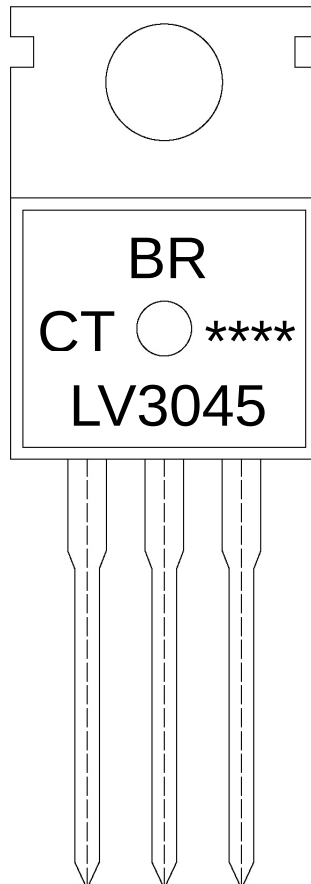
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Breakdown Reverse Voltage	V_{BR}	$I_R=1mA(T_a=25^{\circ}C)$	45			V
Forward Voltage	V_F	$I_F=5A(T_a=25^{\circ}C)$		0.38	0.45	V
		$I_F=15A(T_a=25^{\circ}C)$		0.48	0.55	V
		$I_F=5A(T_a=125^{\circ}C)$		0.28	0.35	V
		$I_F=15A(T_a=125^{\circ}C)$		0.45	0.50	V
Instantaneous Reverse Current	I_R (Note 1)	$V_R=45V(T_a=25^{\circ}C)$			200	μA
		$V_R=45V(T_a=125^{\circ}C)$		40	100	mA

/Notes:

1. $\circ$ /Short duration pulse test used to minimize self-heating effect.
2. $\circ$ / Unless otherwise noted, values for the parameters of a single chip







Note:

BR:

Company Code

LV3045

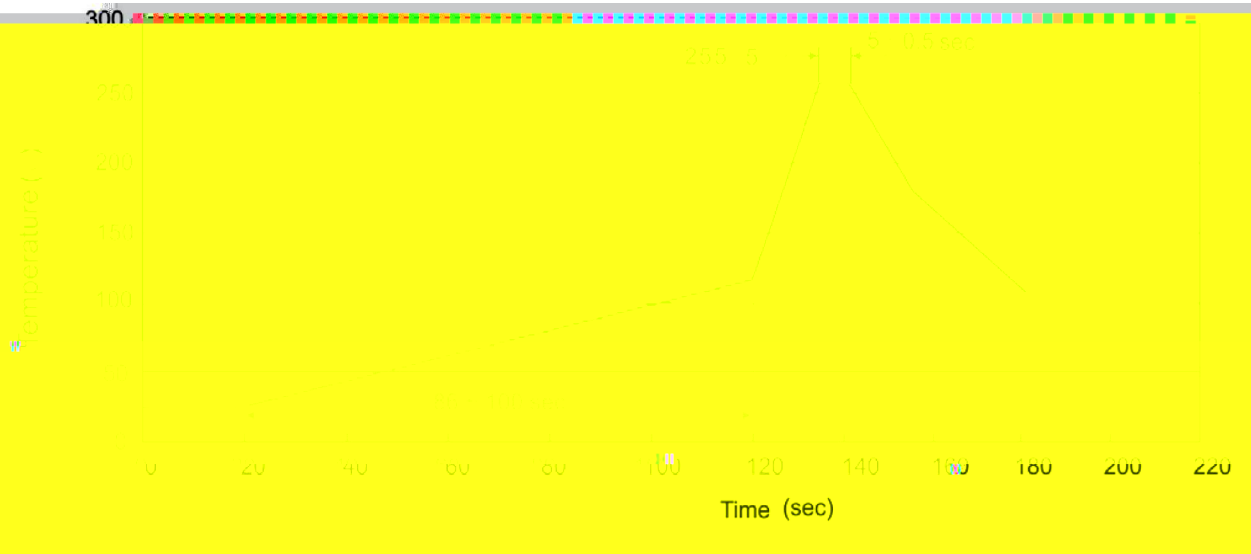
Product Type.

CT:

Internal Structure

****:

Lot No. Code, code change with Lot No.



Note:

- 1

25 150

60 90sec;
- 2

255 5

5 0.5sec;
- 3

2 10

/sec.
- 1.Preheating:25~150 °C, Time:60~90sec.
- 2.Peak Temp.:255 ± 5 °C, Duration:5 ± 0.5sec.
3. Cooling Speed: 2~10 °C/sec.

270 ± 5

10 ± 1 sec.

Temp.:270±5

Time:10±1 sec

/ BULK

Package Type	Units					Dimension (unit mm ³)		
	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