

# LV30150FCT

Rev.F Mar.-2016

## / Descriptions

TO-220F

Schottky Diode in a TO-220F Plastic Package.

## / Features

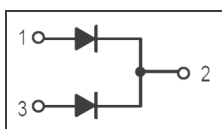
Low forward voltage drop, low power losses, High efficiency operation.

## / Applications

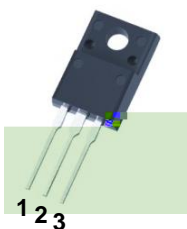
OR-ing      DC-DC

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<sub>FE</sub> Classifications & Marking

See Marking Instructions.

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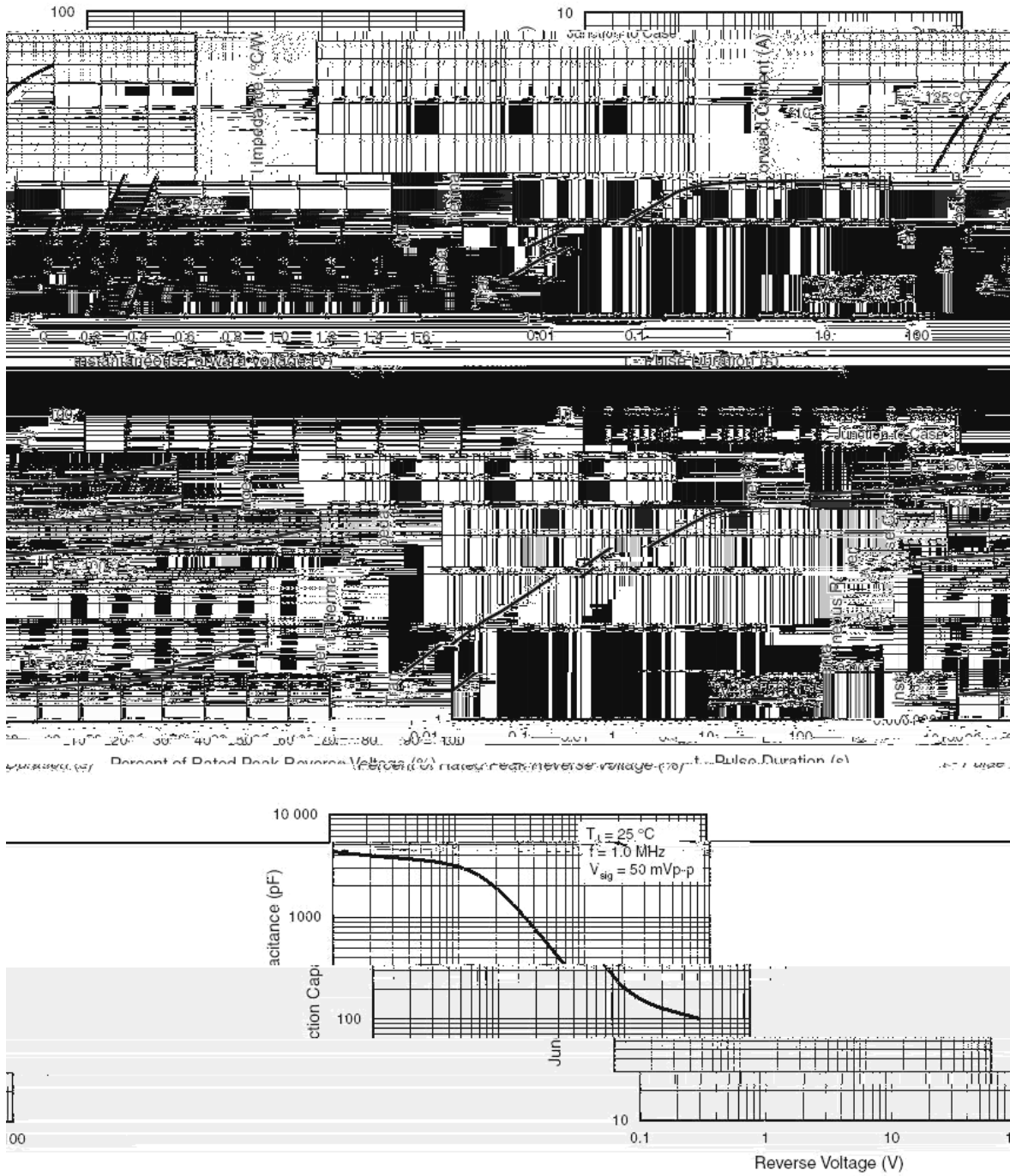
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| Parameter  | Symbol                            | Rating   | Unit |
|--|-----------------------------------|----------|------|
| Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>DC Blocking Voltage | $V_{RM}$<br>$V_{RSM}$<br>$V_{DC}$ | 150      | V    |
| RMS Voltage  | $V_{RMS}$                         | 105      | V    |
| Average Rectified Forward Current(total)   | $I_{F(AV)}$                       | 2×15     | A    |
| Non Repetitive Peak Surge Current  | $I_{FSM}$                         | 250      | A    |
| Thermal Resistance Junction to Case  | $R_{Jc}$                          | 4.6      | /W   |
| Junction and Storage Temperature Range   | $T_j$ $T_{stg}$                   | -40 +150 |      |

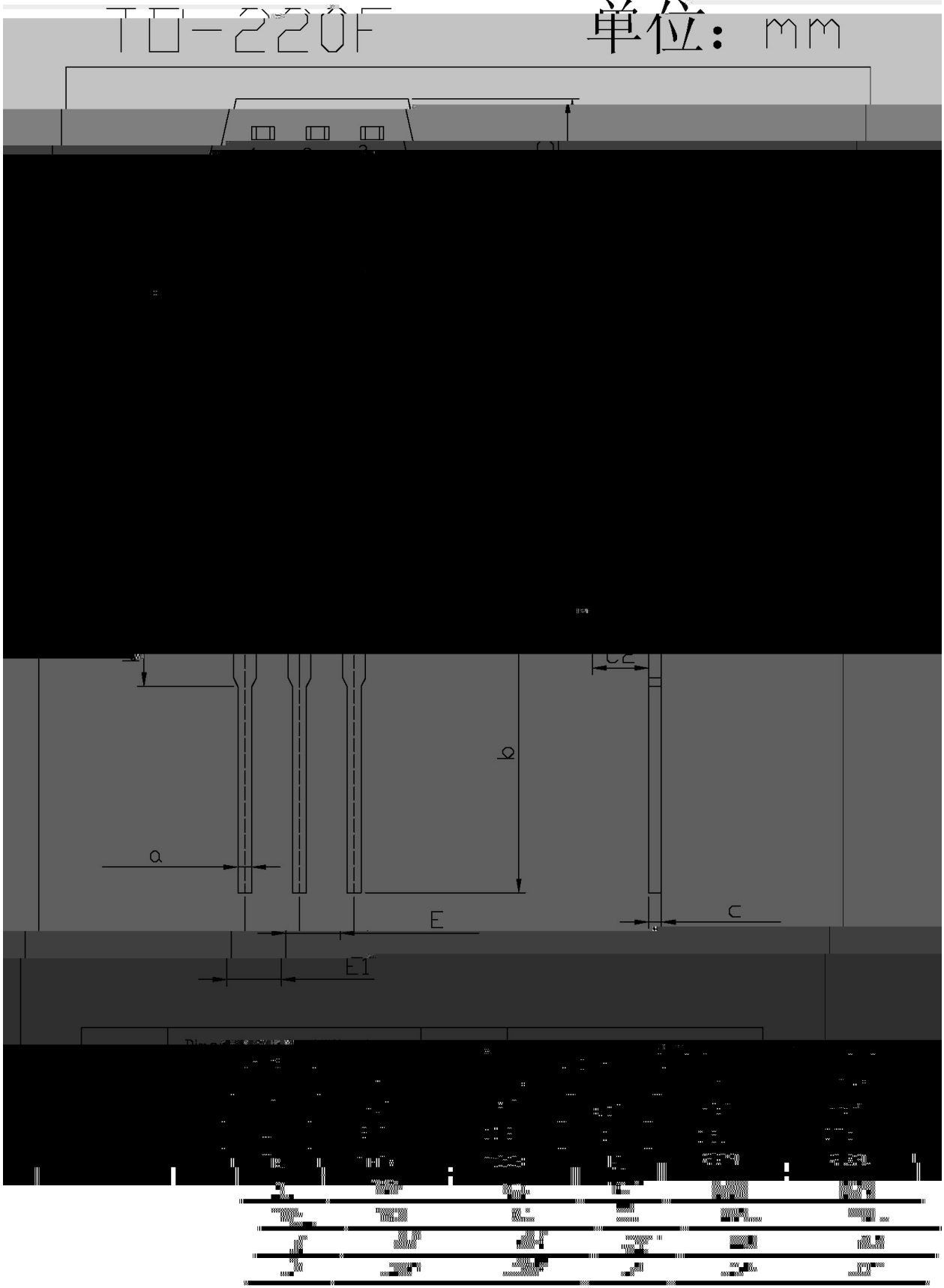
| Parameter         | Symbol   | Test Conditions           | Min | Typ | Max | Unit |
|-------------------|----------|---------------------------|-----|-----|-----|------|
| Breakdown Voltage | $V_{BR}$ | $I_R=1mA(T_a=25^\circ C)$ | 150 |     |     | V    |

/3998 18.478())J/T 1refV.3(V5 402.328 452.2.328 13-00013 Tc0.00307.02 0 0 7.5 292.32 453.8003 T400140013

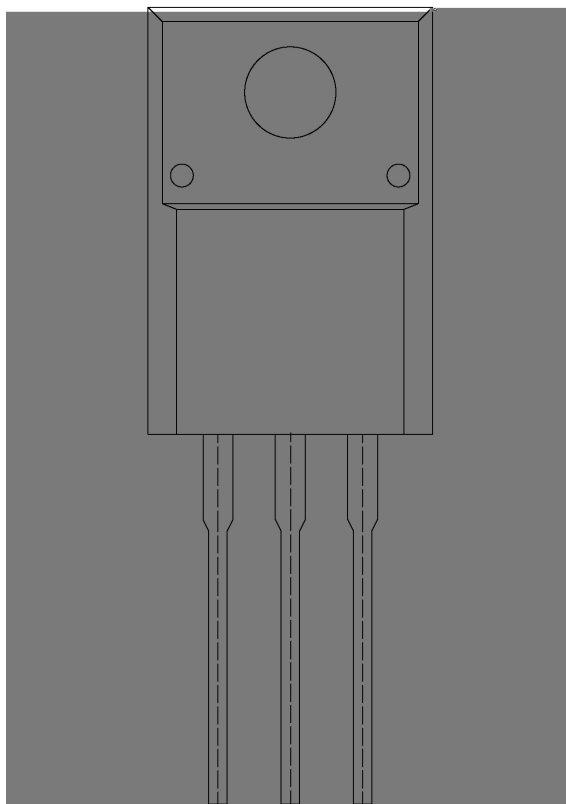
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



BR

LV30150

F:

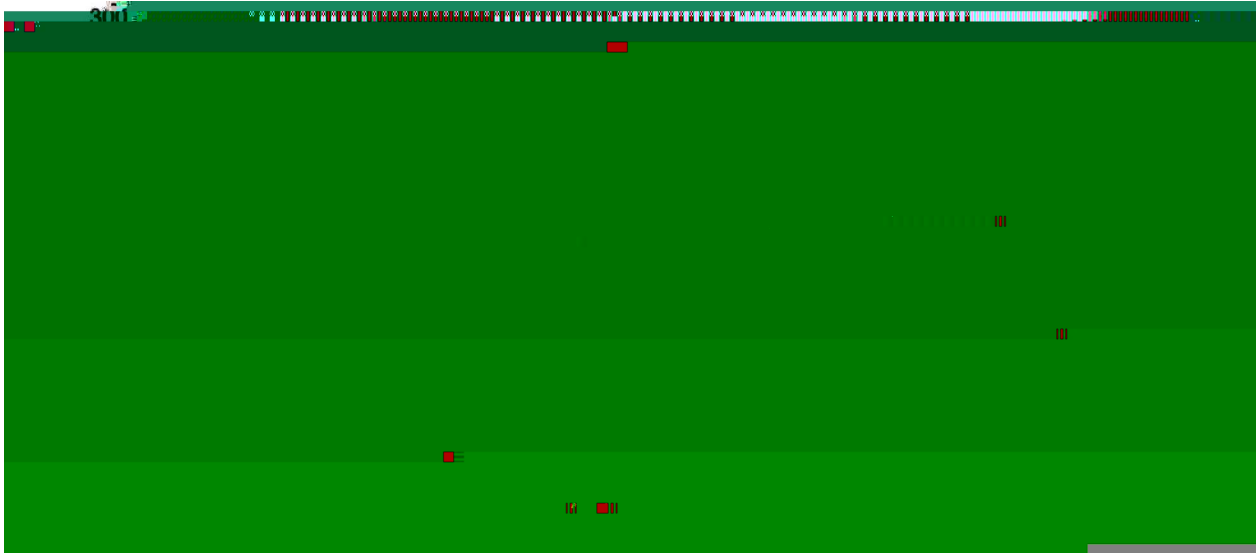
CT:

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Note:

BR:                   Company Code

( ) / **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 <sup>3</sup> ) |             |             |
|--------------|----------------|---------------------|----------------------|----------------------------|----------------------|-----------------------------------|-------------|-------------|
|              | Units/Bag<br>/ | Bags/Inner Box<br>/ | Units/Inner Box<br>/ | Inner Boxes/Outer Box<br>/ | Units/Outer Box<br>/ | 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<br>/ | Tubes/Inner Box<br>/ | Units/Inner Box<br>/ | Inner Boxes/Outer Box<br>/ | Units/Outer Box<br>/ | 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 |

/ **Notices**