## / Descriptions

TO-220F

Schottky Diode in a TO-220F Plastic Package.

## / Features

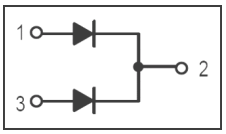
Low forward voltage drop,low power losses,High efficiency operation.

## / Applications

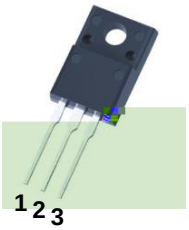
OR-ing DC-DC

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

## / $h_{FE}$ Classifications & Marking

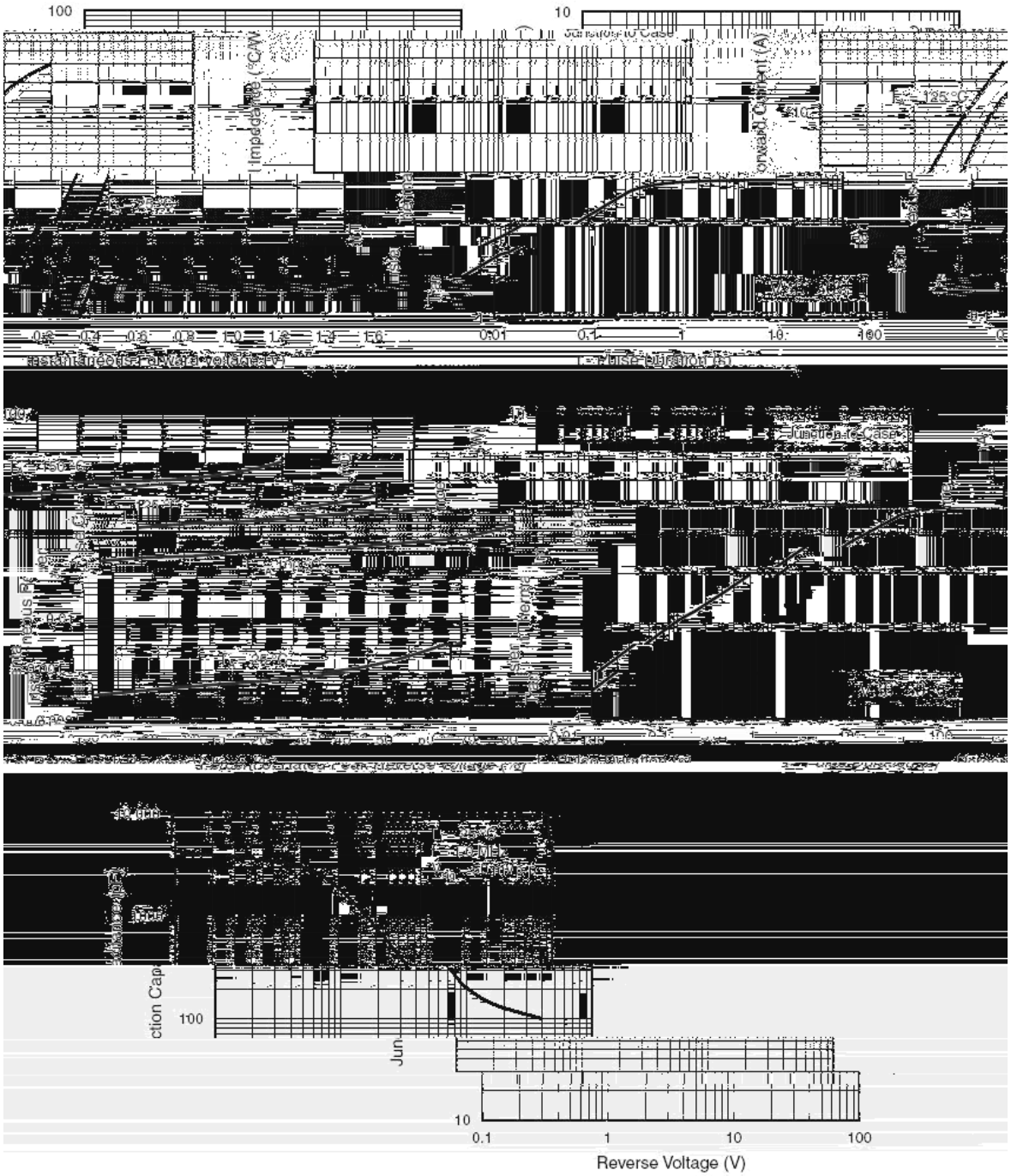
See Marking Instructions.

| 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 | $R_{\theta Jc}$ | 4.6 | /W |
| Junction and Storage Temperature Range | $T_j$ $T_{stg}$ | -40 +150 | |

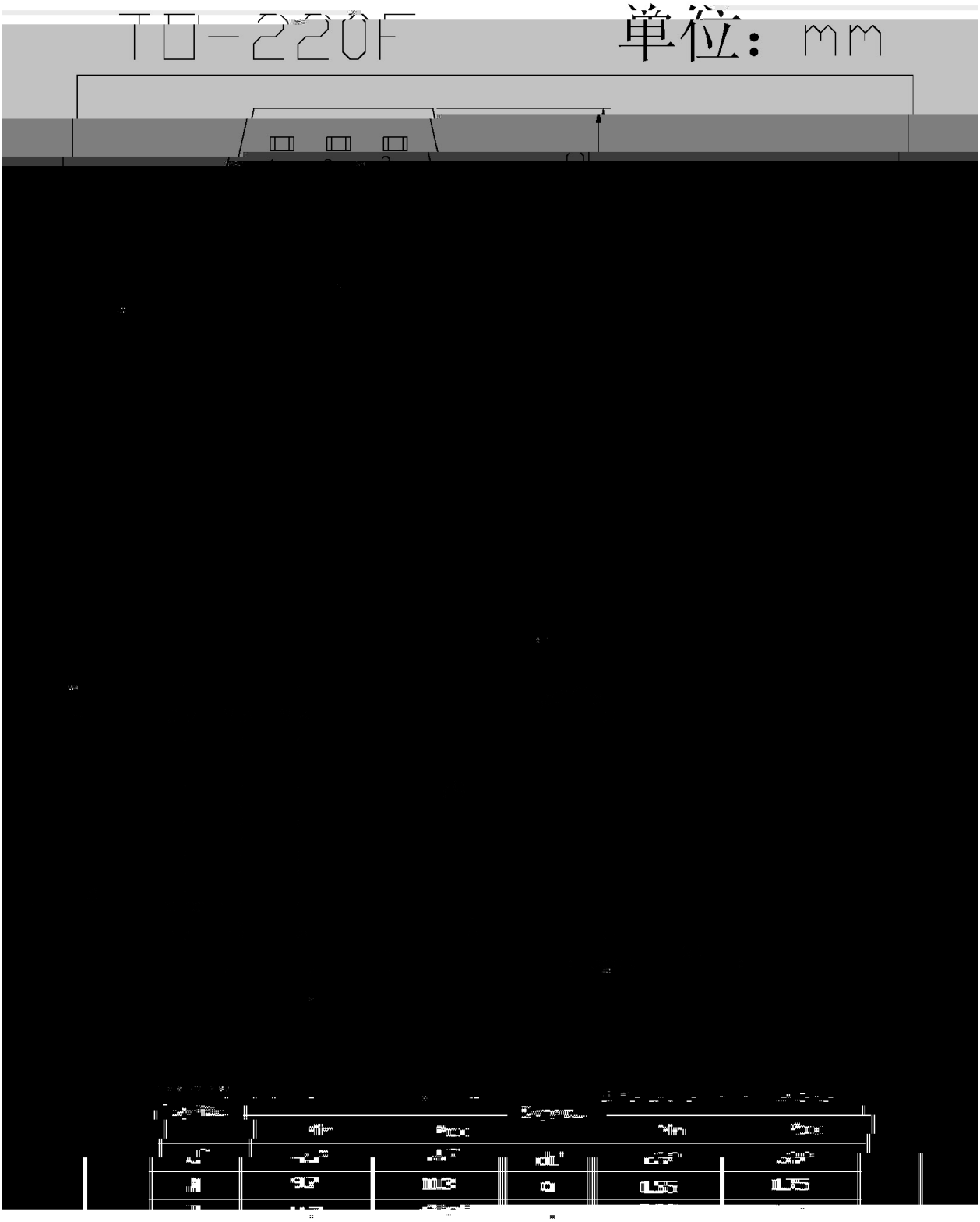
| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Breakdown Voltage | $V_{BR}$ | $I_R$=1mA(Ta=25 ) | 150 | | | V |

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

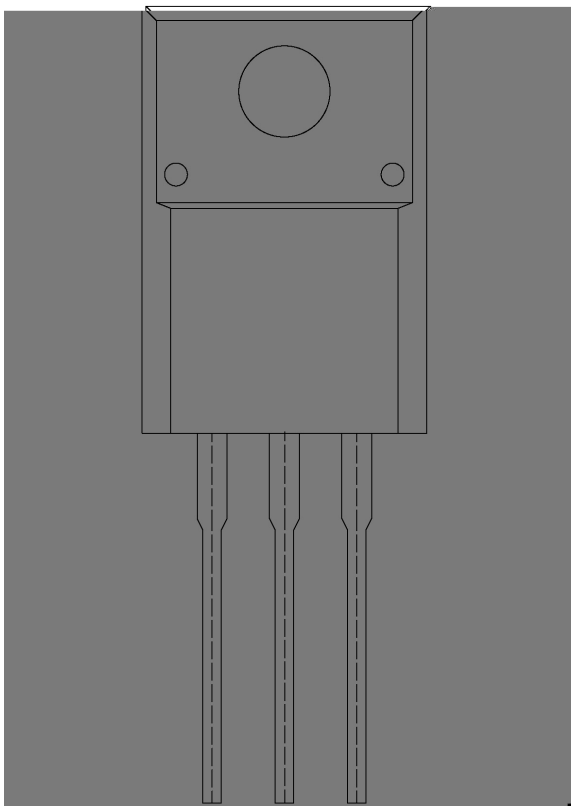
## / Electrical Characteristic Curve



## / Package Dimensions



## / Marking Instructions



BR

LV30150

F:

CT:

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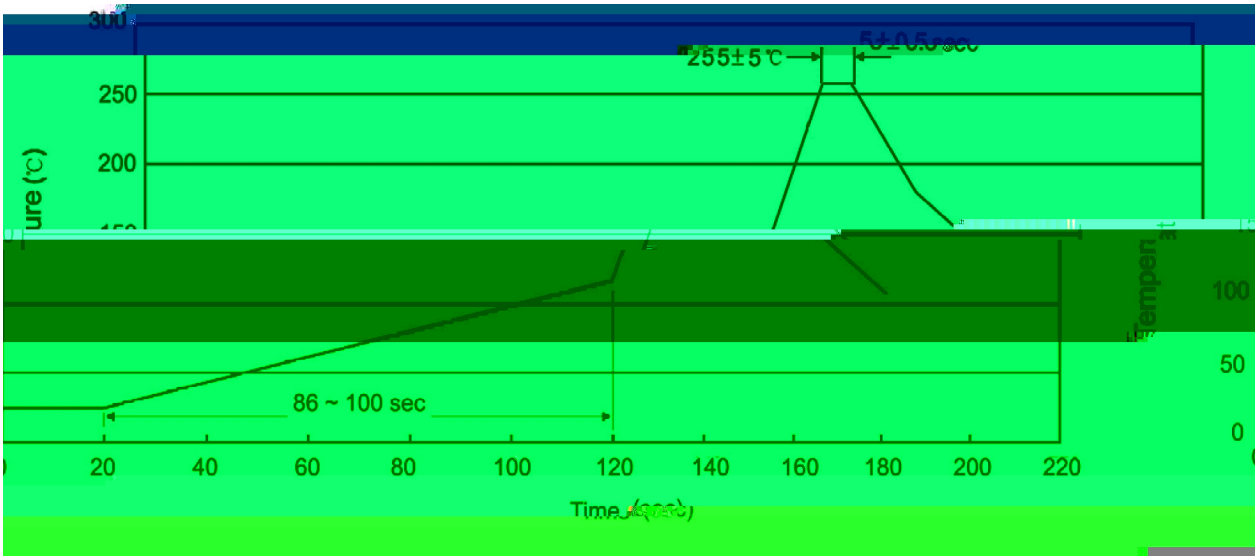
Note:

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 mm³) |
|---|---|---|---|---|---|---|---|---|
| | 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 mm³) |
|---|---|---|---|---|---|---|---|---|
| | 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 |

## / Notices