# LV30200FCT

Rev.F Mar.-2016

DATA SHEET

## / Descriptions

TO-550F Ь ٦

Schottky Diode in a TO-220F Plastic Package.

## / Features

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

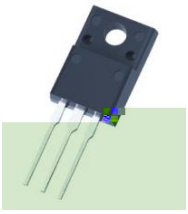
## / Applications

ے إ گ ٨ ٦ OR-ing ٦ GF-GF ج

For use in high frequency inverters, switching power supplies, freewheeling diodes,

OR-ing diode, dc-to-dc converters and reverse battery protection.

## / Equivalent Haq966 247 0 .(TD )ET0.70.82 0.45 rg57.54 45.54036.564 1806 ref62.4 44.02036.



PIN1 Anode PIN 2 Cathode PIN 3 Anode

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

ŏ ب See Marking Instructions.

## / Absolute Maximum Ratings(Ta=25 )

| Parameter | N Symbol | Rating | Unit |
|---|---|---|---|
| Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>DC Blocking Voltage | $V_{RM}$<br>$V_{RSM}$<br>$V_{DC}$ | 200 | V |
| RMS Voltage | $V_{RMS}$ | 140 | V |
| Average Rectified Forward Current | $I_{F(AV)}$ | 2×15 | A |
| Non Repetitive Peak Surge Current | $I_{FSM}$ | 200 | A |
| Thermal Resistance Junction to Case | $R_{\theta Jc}$ | 4.6 | /W |
| Junction and Storage Temperature Range | $T_j$ $T_{stg}$ | -40 +150 | |

## / Electrical Characteristics(Ta=25 )

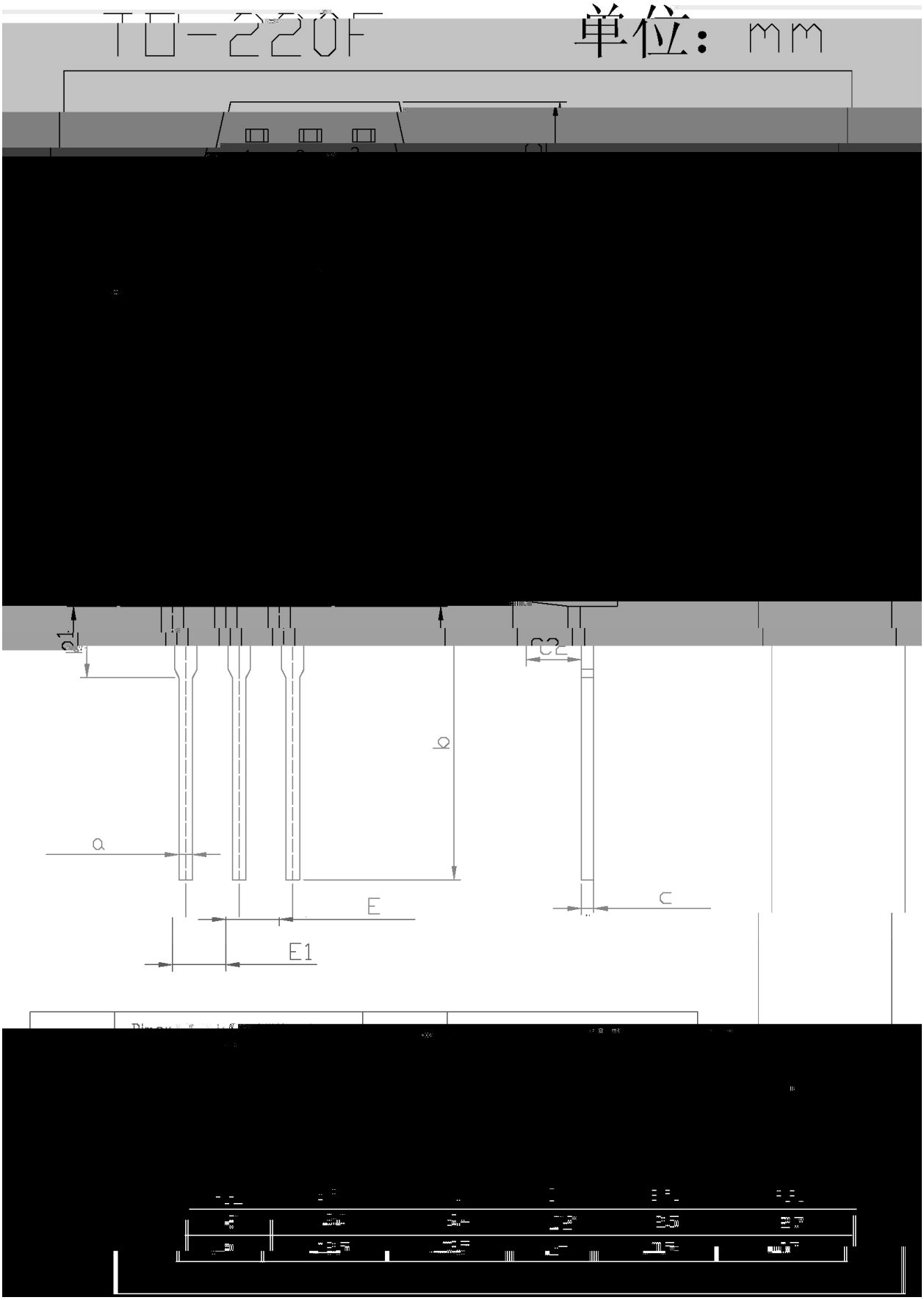
| Parameter | N Symbol | Test Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Breakdown Voltage | $V_{BR}$ | $I_R$=1mA(Ta=25 ) | 200 | | | V |
| Forward Voltage | $V_F$ | $I_F$ =5A(Ta=25 ) | | 0.73 | 0.85 | V |
| | | $I_F$ =10A(Ta=25 ) | | 0.80 | 0.95 | V |
| | | $I_F$ =15A(Ta=25 ) | | 0.92 | 1.15 | V |
| | | $I_F$ =5A(Ta=125 ) | | 0.58 | | V |
| | | $I_F$ =10A(Ta=125 ) | | 0.66 | | V |
| | | $I_F$ =15A(Ta=125 ) | | 0.71 | 0.85 | V |
| Instantaneous Reverse Current | $I_R$<br>Note 1 | $V_R$=200V(Ta=25 ) | | 4 | 20 | μA |
| | | $V_R$=200V(Ta=125 ) | | 5 | 10 | mA |

/Notes

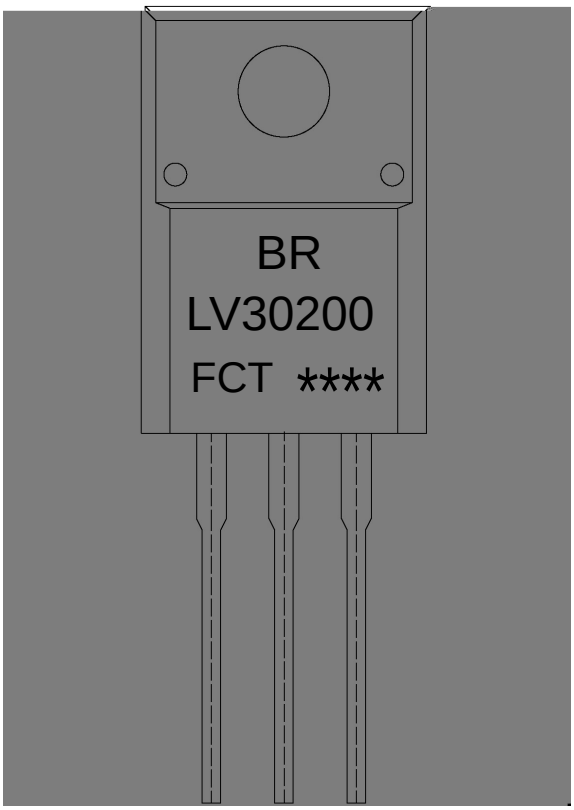
1. /Short duration pulse test used to minimize self-heating effect.

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

## / Package



## / Marking Instructions




| | |
|---|---|
| ER | |
| LV60500 | |
| F: | |
| FT: | |
| **** | |

Note:

| | |
|---|---|
| BR: | Company Code |
| LV60500 | Product Type. |
| F: | Package Code |
| FT: | Internal Structure |
| ****: | Lot No. Code, code change with Lot No. |

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