

TO-252 塑封肖特基二极管

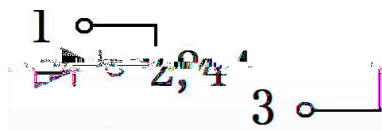
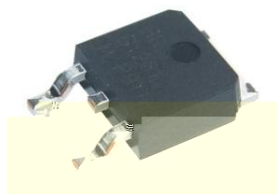
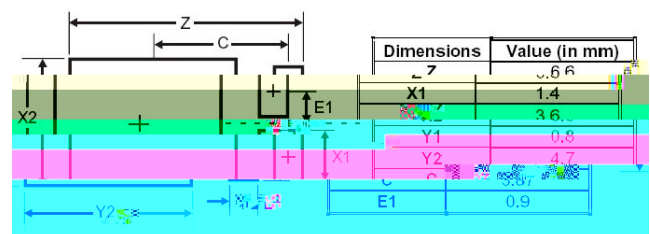
Schottky Barrier Diode in a TO-252 Plastic Package.

具有大正向浪涌能力，超低的正向压降  $V_F(\text{typ})=0.2\text{V}$ ，优异的高温稳定性。

High Forward Surge Capability, Ultra Low Forward Voltage Drop  $V_F(\text{typ})=0.2\text{V}$ , Excellent High Temperature Stability.

适用于低电压、高频逆变器、自由轮、极性保护等应用。

For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.



PIN1 肖阳极

PIN 2,4 肖阴极

PIN 3 肖阳极

Suggested Pad layout

请参见 marking 说明。 See Marking Instructions.

| Parameter                                                                               | Symbol                             | Rating   | Unit |
|-----------------------------------------------------------------------------------------|------------------------------------|----------|------|
| Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>Peak Reverse Voltage | $V_{RRM}$<br>$V_{RWM}$<br>$V_{RM}$ | 45       | V    |
| RMS Reverse voltage                                                                     | $V_{R(RMS)}$                       | 31.5     | V    |
| Average Rectified Output Current                                                        | $I_O$                              | 10       | A    |
| Non-Repetitive Peak Forward Surge Current                                               | $I_{FSM}$                          | 250      | A    |
| Junction Temperature Range                                                              | $T_{j\ MAX}$                       | 150      |      |
| Storage Temperature Range                                                               | $T_{stg}$                          | -55° 150 |      |
| Typical Thermal Resistance                                                              | $R_{\theta JA}$ Note 1°            | 73       | /W   |

| Parameter                     | Symbol                               | Test Conditions                             | Min | Typ  | Max  | Unit |
|-------------------------------|--------------------------------------|---------------------------------------------|-----|------|------|------|
| Reverse Voltage               | V <sub>R</sub>                       | I <sub>R</sub> =0.5mA                       | 45  |      |      | V    |
| Forward voltage               | V <sub>F</sub>                       | I <sub>F</sub> =2A      T <sub>J</sub> =25  |     | 0.33 | 0.38 | V    |
|                               |                                      | I <sub>F</sub> =2A      T <sub>J</sub> =125 |     | 0.20 |      | V    |
|                               |                                      | I <sub>F</sub> =10A     T <sub>J</sub> =25  |     | 0.42 | 0.46 | V    |
|                               |                                      | I <sub>F</sub> =10A     T <sub>J</sub> =125 |     | 0.35 |      | V    |
| Instantaneous Reverse Current | I <sub>R</sub> <small>Note 2</small> | V <sub>R</sub> =45V     T <sub>J</sub> =25  |     | 0.06 | 0.12 | mA   |
|                               |                                      | V <sub>R</sub> =45V     T <sub>J</sub> =100 |     |      | 12   | mA   |
|                               |                                      | V <sub>R</sub> =45V     T <sub>J</sub> =125 |     |      | 50   | mA   |

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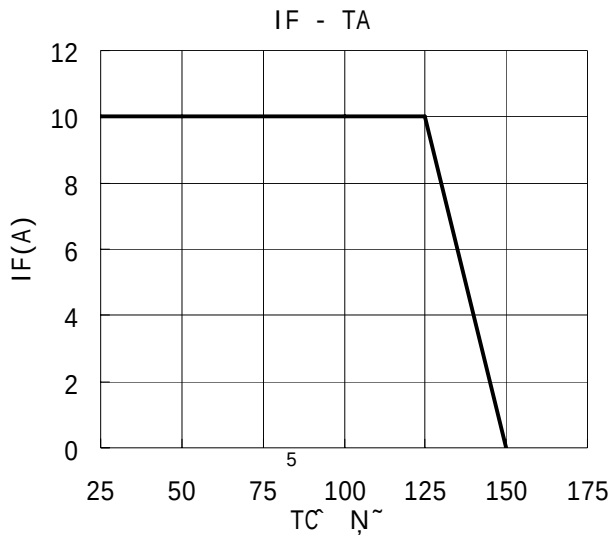
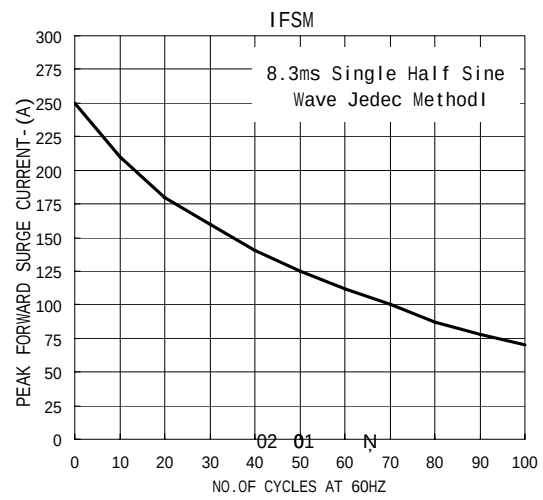
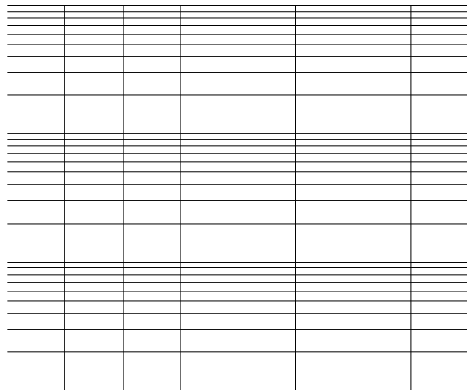
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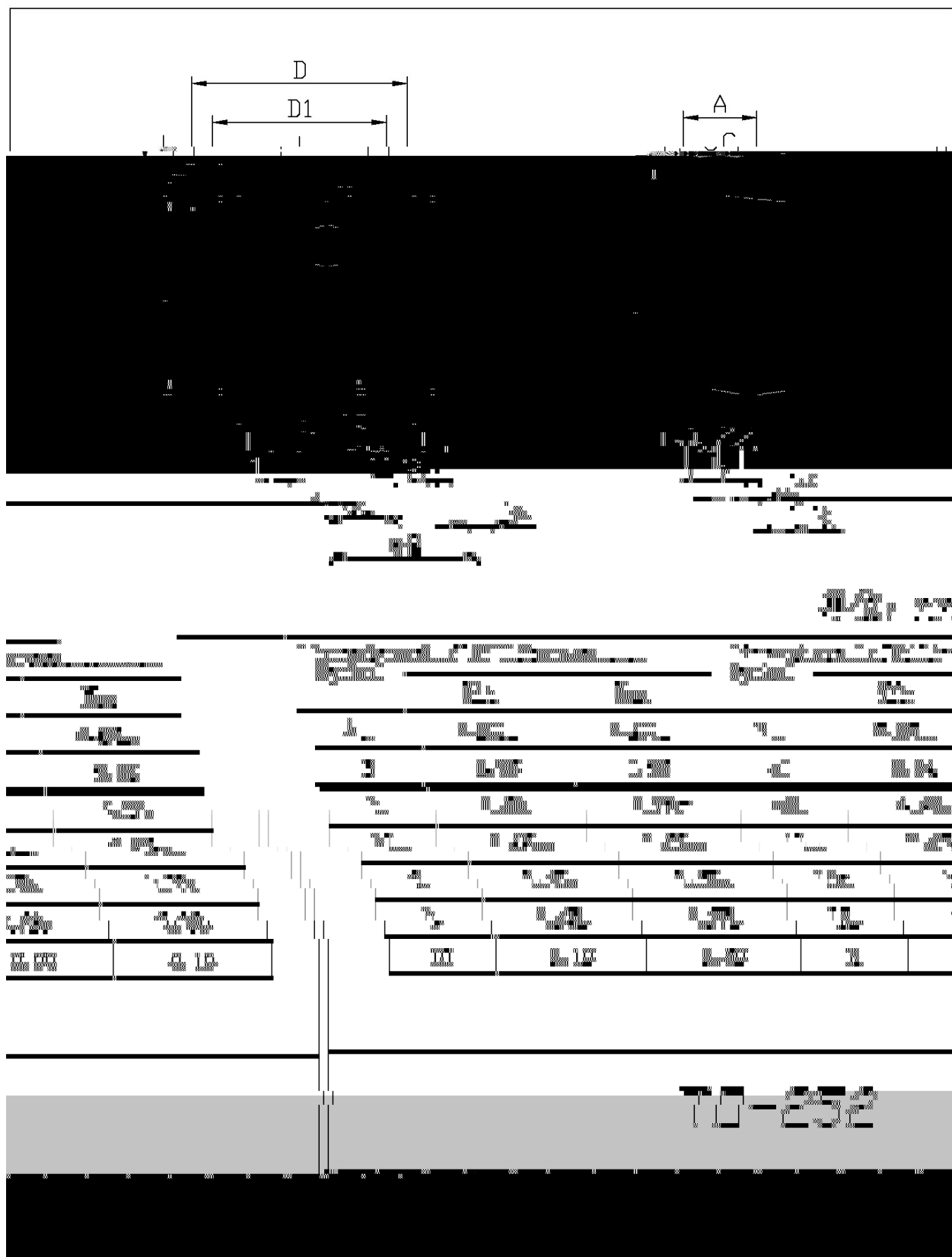
41 IU07 SFE ١ 5' ٨ ق ا و ه ا ا ن ٠ y p /FR-4 PCB, 2oz. Copper, minimum recommended pad layout per.

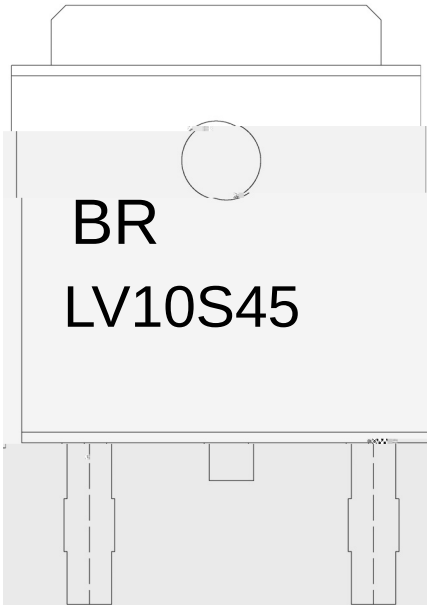
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|---------|----------------------------------------|
| 公司代码    |                                        |
| EU      | 公司代码                                   |
| 0Y43V78 | 产品代码                                   |
| ----    | 公司代码 产品代码 批次代码                         |
| Note:   |                                        |
| BR:     | Company Code                           |
| 0Y43V78 | Product Type Code.                     |
| ****:   | Lot No. Code, code change with Lot No. |

