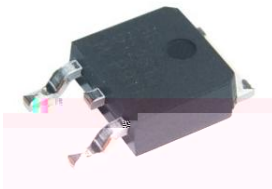
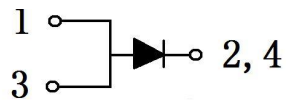


TO-252

Schottky Barrier Diode in a TO-252 Plastic Package.

High Forward Surge Capability, Ultra Low Forward Voltage Drop, Excellent High Temperature Stability.

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



PIN1 Anode

PIN 2,4 Cathode

PIN 3 Anode

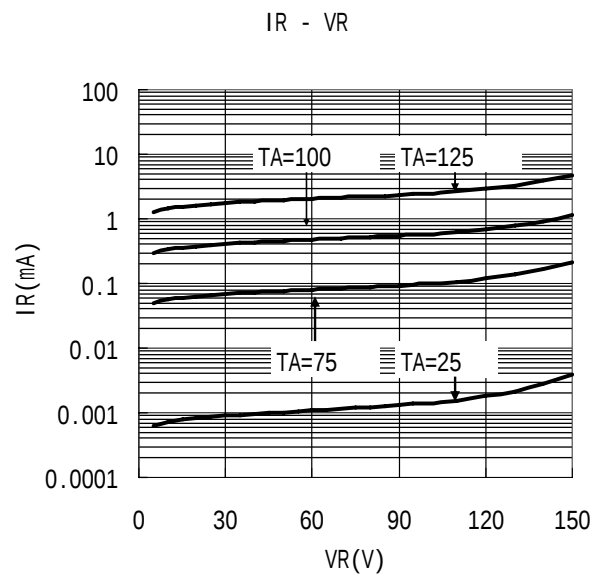
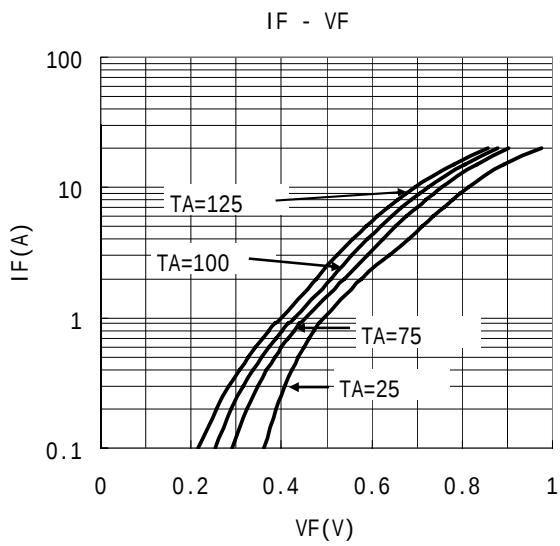
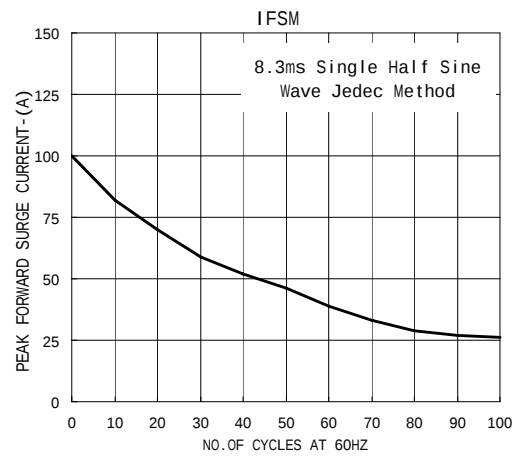
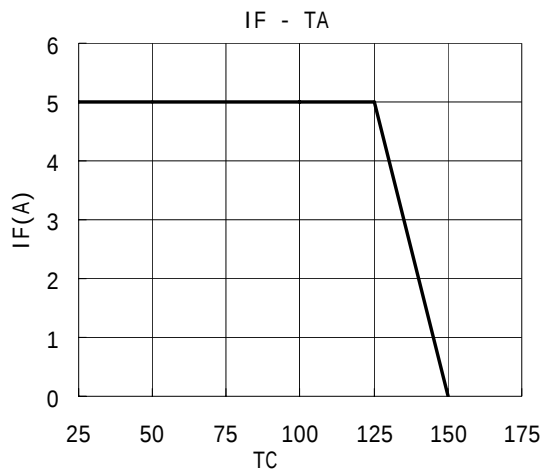
See Marking Instructions.

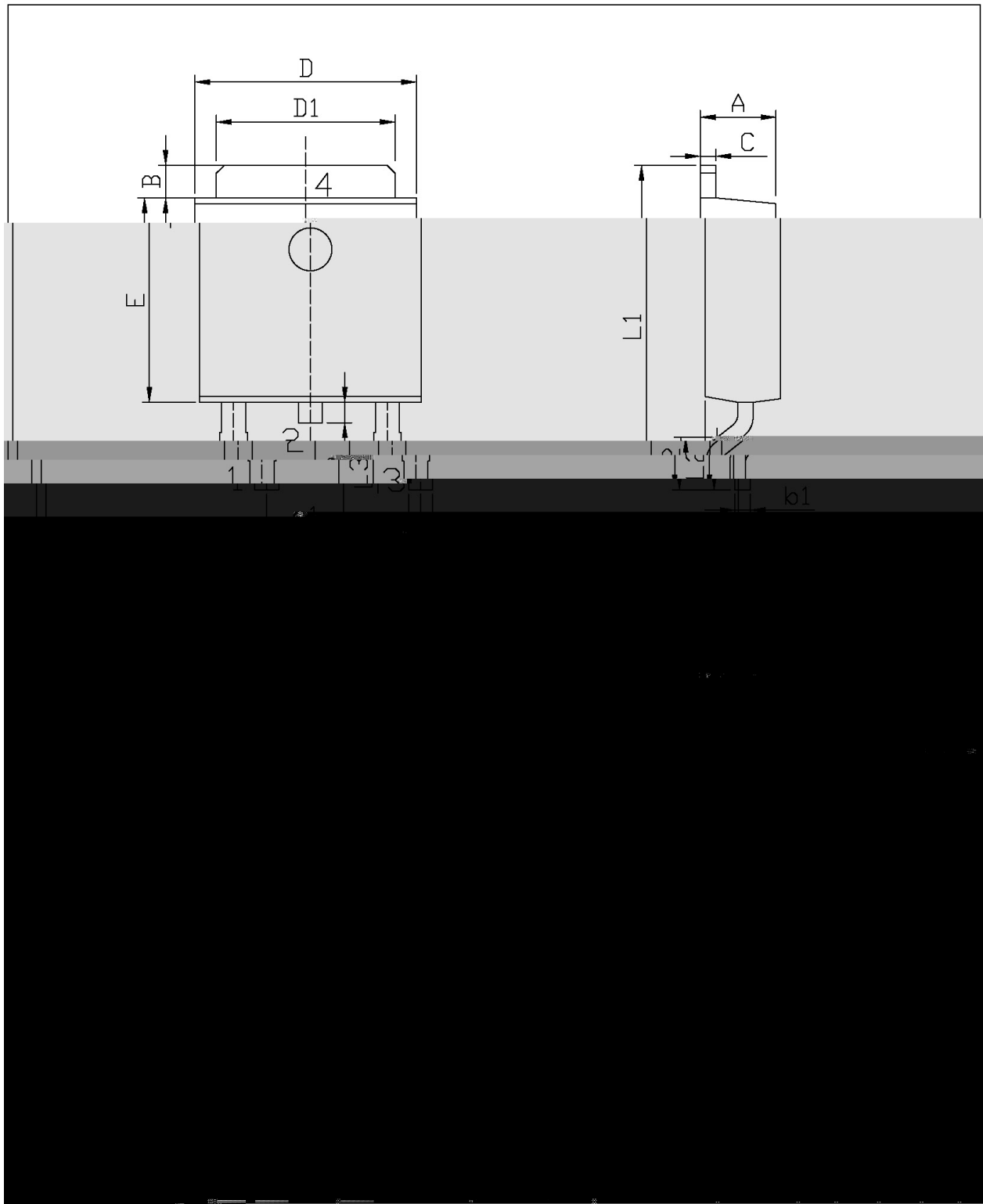
| Parameter                                                                              | Symbol                             | Rating  | Unit |
|----------------------------------------------------------------------------------------|------------------------------------|---------|------|
| Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>DC Blocking Voltage | $V_{RRM}$<br>$V_{RWM}$<br>$V_{RM}$ | 150     | V    |
| RMS Reverse Voltage                                                                    | $V_{R(RMS)}$                       | 105     | V    |
| Average Forward Rectified Current                                                      | $I_{F(AV)}$                        | 10      | A    |
| Peak Forward Surge Current                                                             | $I_{FSM}$                          | 200     | A    |
| Typical Thermal Resistance Junction to Case                                            | $R_{JC}$                           | 6.5     | °C/W |
| Junction Temperature Range                                                             | $T_{J\ MAX}$                       | 150     | °C   |
| Storage Temperature Range                                                              | $T_{stg}$                          | -55 150 | °C   |

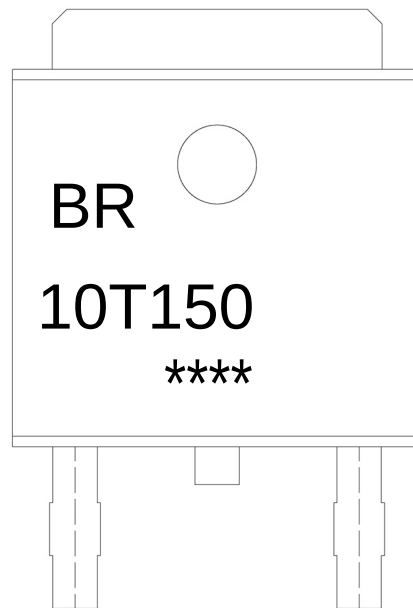
| Parameter                     | Symbol          | Test Conditions               | Min | Typ  | Max  | Unit |
|-------------------------------|-----------------|-------------------------------|-----|------|------|------|
| Reverse Voltage               | $V_{BR}$        | $I_R=0.3mA$                   | 150 |      |      | V    |
| Forward Voltage               | $V_F$           | $I_F=2A$ $T_J=25^{\circ}C$    |     | 0.57 | 0.60 | V    |
|                               |                 | $I_F=2A$ $T_J=125^{\circ}C$   |     | 0.47 | 0.55 | V    |
|                               |                 | $I_F=10A$ $T_J=25^{\circ}C$   |     | 0.81 | 0.85 | V    |
|                               |                 | $I_F=10A$ $T_J=125^{\circ}C$  |     | 0.69 | 0.75 | V    |
| Instantaneous Reverse Current | $I_R$<br>Note 1 | $V_R=100V$ $T_J=25^{\circ}C$  |     | 5    | 50   | uA   |
|                               |                 | $V_R=100V$ $T_J=100^{\circ}C$ |     |      | 10   | mA   |
|                               |                 | $V_R=100V$ $T_J=125^{\circ}C$ |     |      | 20   | mA   |

/Notes

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







BR

10T150

\*\*\*\*

Note:

BR:

Company Code

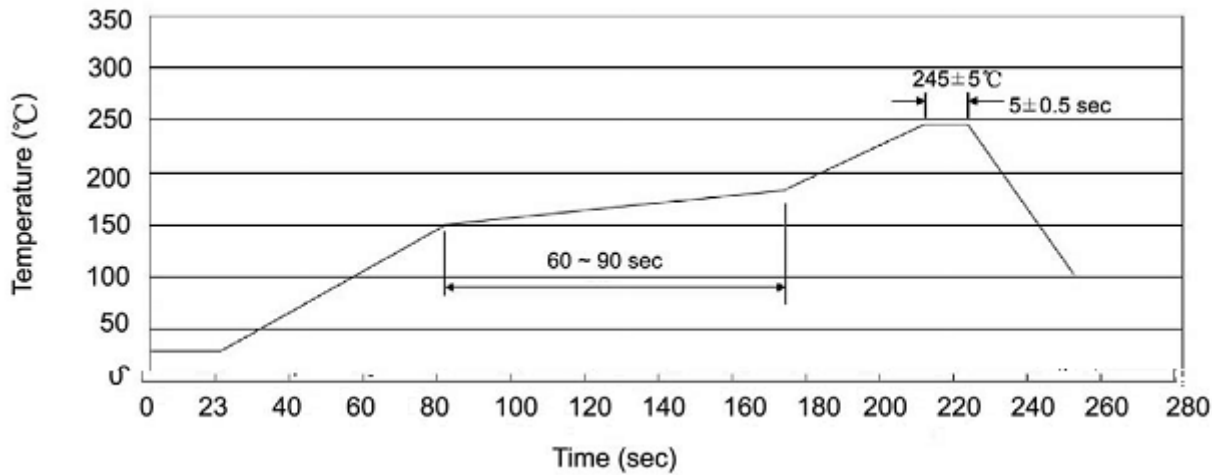
10T150

Product Type Code.

\*\*\*\*:

Lot No. Code, code change with Lot No.

Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

25 150

60 90sec;

1.Preheating:25~150 , Time:60~90sec.
- 2

245±5

5±0.5sec;

2.Peak Temp.:245±5 , Duration:5±0.5sec.
- 3

2 10 /sec.

3. Cooling Speed: 2~10 /sec.

260±5

10±1 sec.

Temp.:260±5℃

Time:10±1 sec

/ REEL

| Package Type<br>封装形式 | Units 包装数量         |                         |                        |                              |                        | Dimension 包装尺寸 (unit: mm <sup>3</sup> ) |             |             |
|----------------------|--------------------|-------------------------|------------------------|------------------------------|------------------------|-----------------------------------------|-------------|-------------|
|                      | Units/Reel<br>只/卷盘 | Reels/Inner Box<br>卷盘/盒 | Units/Inner Box<br>只/盒 | Inner Boxes/Outer Box<br>盒/箱 | Units/Outer Box<br>只/箱 | Reel                                    | Inner Box 盒 | Outer Box 箱 |
| TO-252               | 2,500              | 2                       | 5,000                  | 5                            | 25,000                 | 13 ×16                                  | 360×360×50  | 385×257×392 |

×16/