

# MBRJ10150CT

Rev.E Mar.-2016

## / Descriptions

TO-220S M M E  $\approx$  g<sup>~</sup> || 1 Schottky diode in a TO-220S Plastic Package.

## / Features

"Ω ā H i ǒ ' x

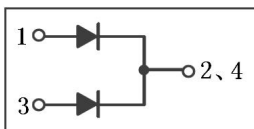
Low power loss, high efficiency.

## / Applications

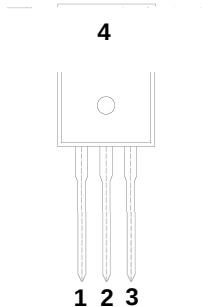
ǝ<sup>^</sup> x l H я z ɔ Ƨ Ω Ƨ<sup>~</sup> || 1 i 1 Ƨ<sup>~</sup> || 1

For high frequency, high voltage, high current rectifier diode, freewheeling diode.

## / Equivalent Circuit



## / Pinning



PIN1 x Anode

PIN 2 x Cathode

PIN 3 x Anode

PIN 4 x NC

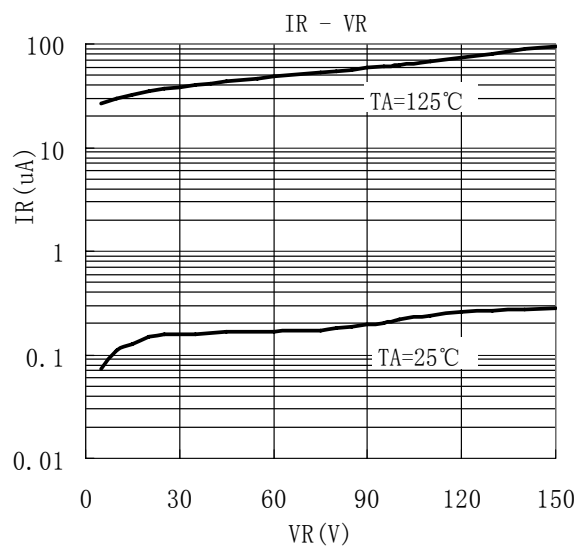
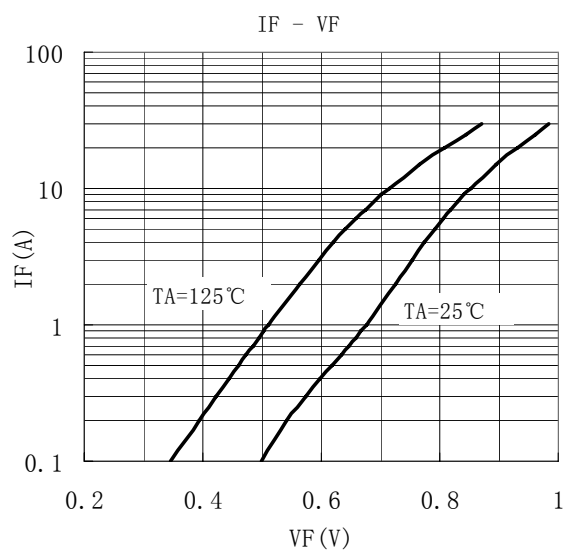
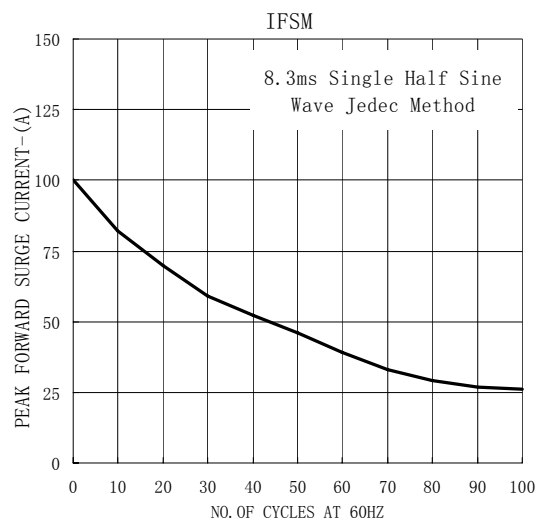
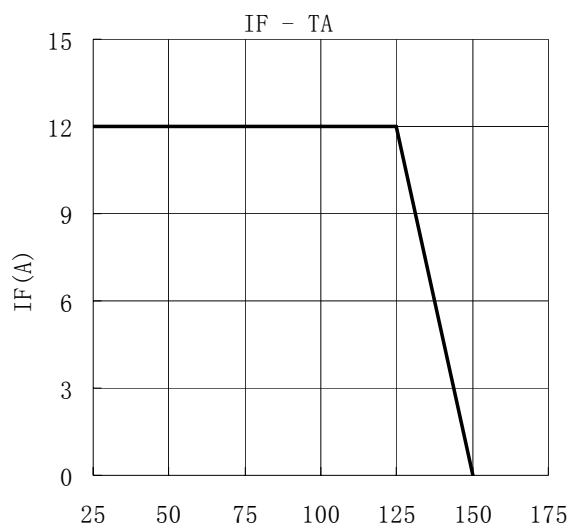
## / h<sub>FE</sub> Classifications & Marking

ō m 1 ɔ " 。 See Marking Instructions.

**/ Absolute Maximum Ratings(Ta=25**

| Parameter                                                                          | Symbol                             | Rating  | Unit |
|------------------------------------------------------------------------------------|------------------------------------|---------|------|
| Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>Reverse Voltage | $V_{RRM}$<br>$V_{RWM}$<br>$V_{RM}$ | 150     | V    |
| RMS Reverse Voltage                                                                | $V_{R(RMS)}$                       | 105     | V    |
| Average Rectified Forward Current                                                  | $I_{F(AV)}$                        | 2*5     | A    |
| Non Repetitive Peak Surge Current                                                  | $I_{FSM}$                          | 100     | A    |
| Thermal Resistance Junction to Case                                                | $R_{\theta Jc}$                    | 3.5     | /W   |
| Junction Temperature Range                                                         | $T_{j MAX}$                        | 150     |      |
| Storage Temperature Range                                                          | $T_{stg}$                          | -65~150 |      |

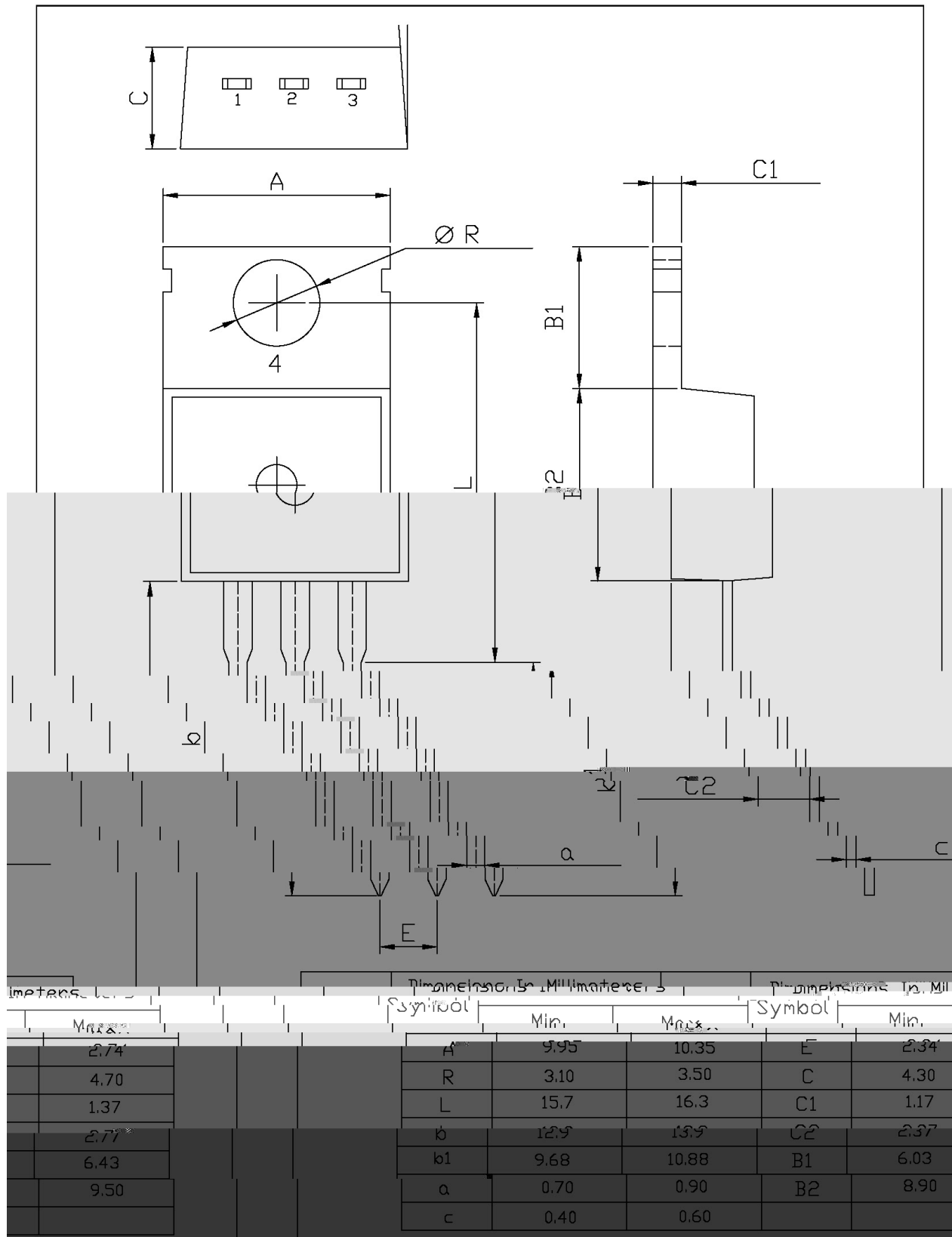
/ Electrical Characteristic Curve



/ Package Dimensions

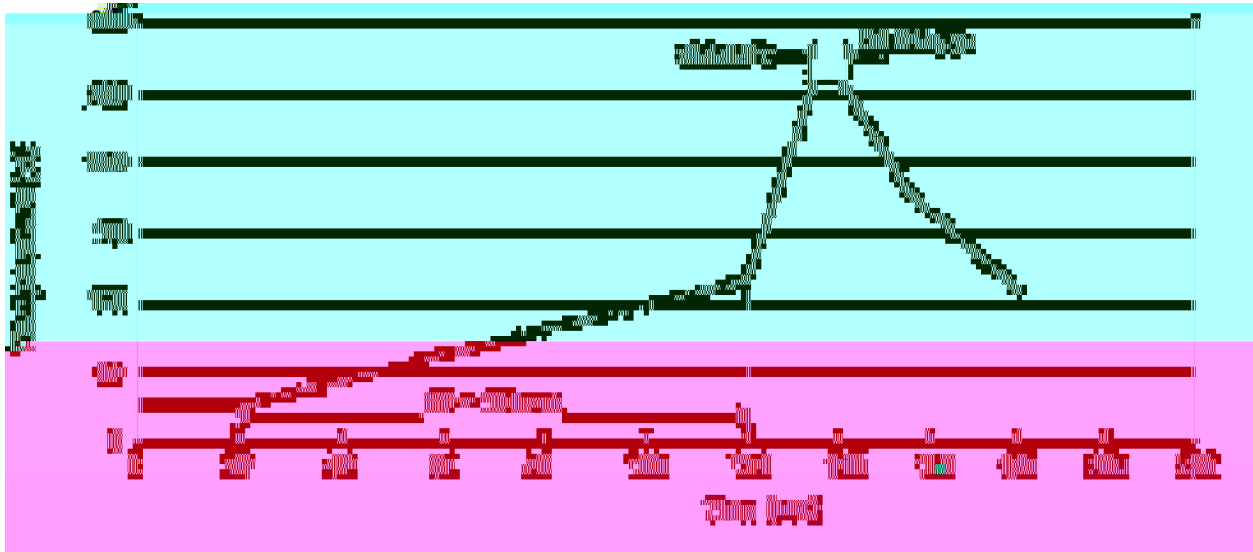
TO-220S

Unit: mm





( ) / Temperature Profile for Dip Soldering(Pb-Free)



℃ ×

1. 25~150℃, Time: 60~90sec;

2. 255±5℃, Time: 5±0.5sec;

3. Cooling Speed: 2~10℃/sec.

Note:

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

2. Peak Temp.: 255±5℃, Duration: 5±0.5sec.

3. Cooling Speed: 2~10℃/sec.

/ Resistance to Soldering Heat Test Conditions

270±5℃

Time: 10±1 sec.

Temp.: 270±5

Time: 10±1 sec

/ Packaging SPEC.

1 / TUBE

| Package Type<br>封装形式 | Units 包装数量         |                         |                        |                              |                        | Dimension 包装尺寸 (unit: mm <sup>3</sup> ) |             |             |
|----------------------|--------------------|-------------------------|------------------------|------------------------------|------------------------|-----------------------------------------|-------------|-------------|
|                      | Units/Tube<br>只/套管 | Tubes/Inner Box<br>套管/盒 | Units/Inner Box<br>只/盒 | Inner Boxes/Outer Box<br>盒/箱 | Units/Outer Box<br>只/箱 | Tube 套管                                 | Inner Box 盒 | Outer Box 箱 |