



# EBRT15L150D



## Excellent Schottky Barrier Rectifiers



DO-201AD

| Primary Characteristics |      |    |
|-------------------------|------|----|
| $I_F$                   | 15   | A  |
| $V_{RRM}$               | 150  | V  |
| $I_{FSM}$               | 200  | A  |
| $V_F$                   | 0.83 | V  |
| $T_J \text{ max}$       | 150  | °C |

### Features

- High current capability
- High surge current capability
- Low reverse current
- Component in accordance to RoHS 2002/95/EC

### Mechanical Data

- Cases: DO-201AD
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead free Plating (Tin Finish)  
Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.071 grams (approximate)

### Ordering Information

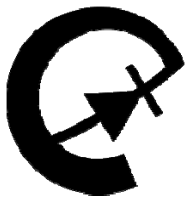
| Part No.      | Remark       | Package  | Packing   |
|---------------|--------------|----------|-----------|
| EBRT15L150D   | General      | DO-201AD | 500 / Box |
| EBRT15L150D-H | Halogen Free |          |           |

### Maximum Ratings (TA=25°C unless otherwise noted)

| PARAMETER                                                                                  | SYMBOL          | EBRT15L150D            | UNIT |
|--------------------------------------------------------------------------------------------|-----------------|------------------------|------|
| Maximum repetitive peak reverse voltage                                                    | $V_{RRM}$       | 150                    | V    |
| Maximum RMS voltage                                                                        | $V_{RMS}$       | 105                    | V    |
| Maximum DC blocking voltage                                                                | $V_{DC}$        | 150                    | V    |
| Maximum average forward rectified current                                                  | $I_F$           | 15.0                   | A    |
| Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load         | $I_{FSM}$       | 200.0                  | A    |
| Maximum Instantaneous Forward Voltage<br>$I_F=3A @ 25^{\circ}C$<br>$I_F=15A @ 25^{\circ}C$ | $V_F$           | 0.63 Typ.<br>0.83 Max. | V    |
| Maximum DC Reverse Current @ TA=25°C<br>at Rated DC Blocking Voltage @ TA=125°C            | $I_R$           | 0.2<br>50              | mA   |
| Typical Junction Capacitance(NOTE1)                                                        | $C_j$           | 850                    | pF   |
| Typical Thermal Resistance                                                                 | $R_{\theta JC}$ | 5                      | °C/W |
| Operating Temperature Range                                                                | $T_J$           | -55 to +150            | °C   |
| Storage Temperature Range                                                                  | $T_{STG}$       | -55 to +150            | °C   |
| Marking Code                                                                               |                 | 15L150D 、 T15L150D     |      |

### NOTES:

1.Measured at 1.0MHZ and applied reverse voltage of 4.0V DC



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### Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

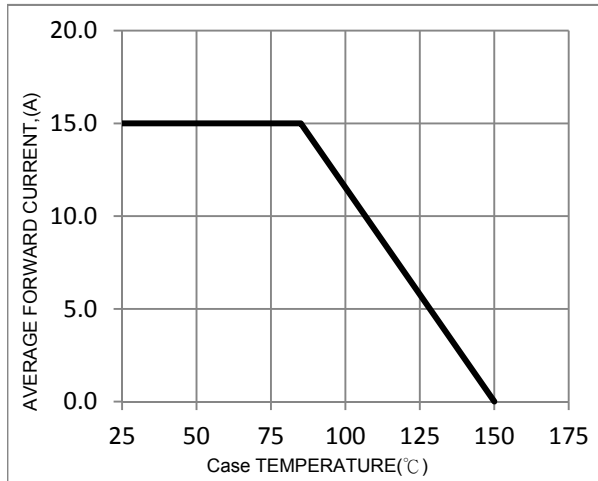


FIG. 2-Typical Forward Characteristics

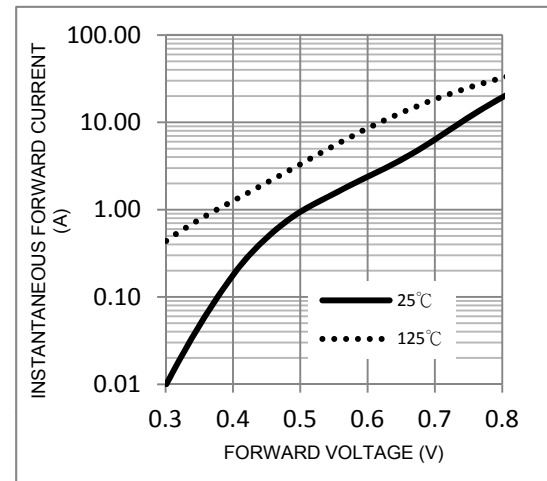


FIG. 3-Maximum Non-Repetitive Forward Surge Current

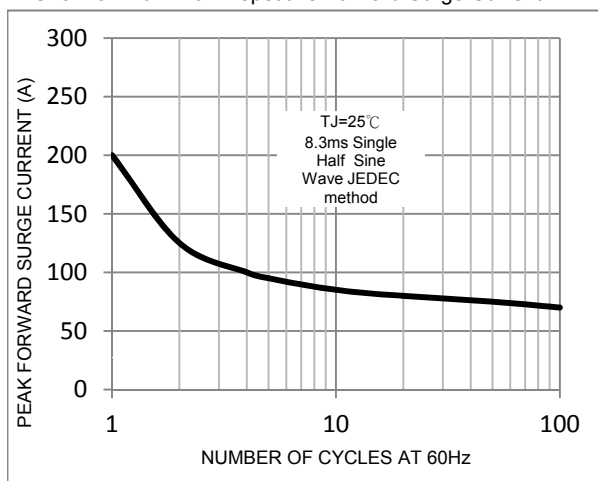


FIG. 4-Typical Reverse Characteristics

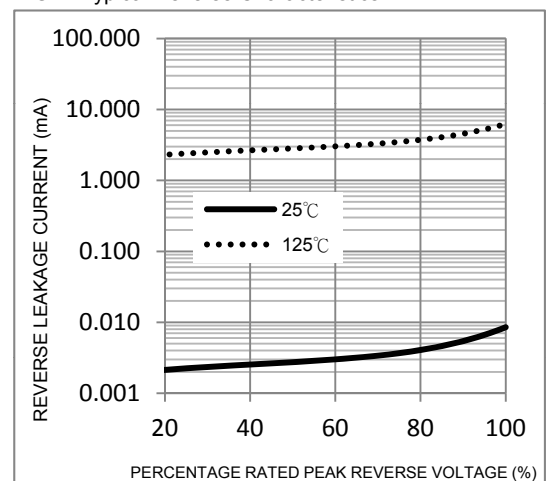
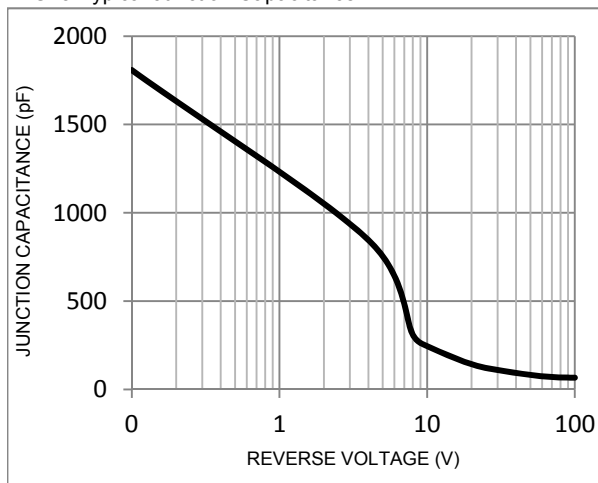
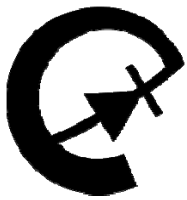


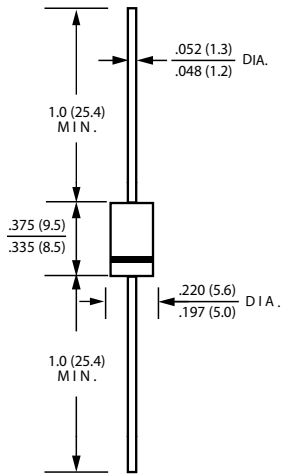
FIG. 5-Typical Junction Capacitance





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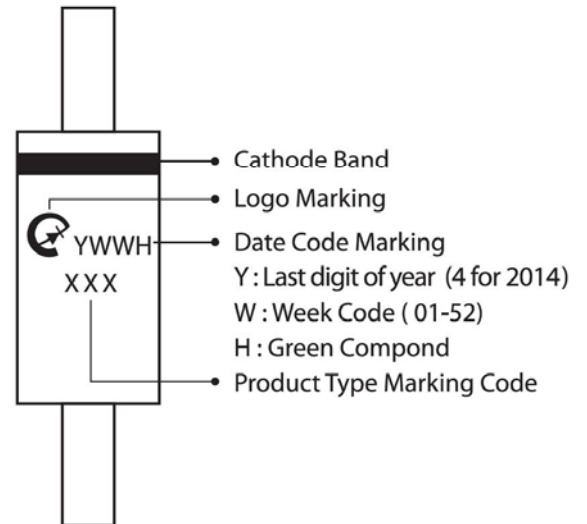
### Package Outline Dimensions



### DO-201AD

Dimensions in inches and (millimeters)

### Marking Information



### Bulk Packing

| Package         | Inner Pack | Inner Box (EA) | Inner Box (mm) | Carton (EA) | Carton Size (mm) | Gross Weight (Kg)-Approx. |
|-----------------|------------|----------------|----------------|-------------|------------------|---------------------------|
| DO-201AD(DO-27) | Box        | 500            | 300x77x39      | 12000       | 475x220x260      | 16                        |