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SOD-123

Zener Diode in a SOD-123 Plastic Package.

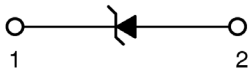
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Wide zener reverse voltage range 2.4V-110V, Maximum  $P_D$  to 500mW. HF Product.

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Design for 500mW SOD-123 surface mount.

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PIN1:Cathode

PIN2:Anode

Z Ü B , M V

See Electrical Characteristics.

| Parameter                                          | Symbol         | Rating  | Unit |
|----------------------------------------------------|----------------|---------|------|
| Forward Voltage (P U F IF=10mA)                    | $V_F$          | 0.9     | V    |
| Power Dissipation (P U F)                          | $P_D$          | 500     | mW   |
| Thermal Resistance Junction to Ambient Air (P U F) | $R_{JA}$       | 350     | /W   |
| Operating and Storage Temperature Range            | $T_j, T_{stg}$ | -65 150 |      |

| Device    | Device Marking | Zener Voltage (P U F) |     |      |            | Max. Zener Impedance (P U F) |                   |      | Max Reverse Leakage Current (P U F) |   |
|-----------|----------------|-----------------------|-----|------|------------|------------------------------|-------------------|------|-------------------------------------|---|
|           |                | $V_z(V)$              |     |      | @ $I_{zT}$ | $Z_{zt} @ I_{zT}$            | $Z_{zk} @ I_{zk}$ |      | $I_R @ V_R$                         |   |
|           |                | Min                   | Nom | Max  | mA         |                              |                   | mA   | uA                                  | V |
| MMSZ5221B | HC1            | 2.28                  | 2.4 | 2.52 | 20         | 30                           | 1200              | 0.25 | 100                                 | 1 |
| MMSZ5222B | HC2            | 2.38                  | 2.5 | 2.63 | 20         | 30                           | 1250              | 0.25 | 100                                 | 1 |

| Device    | Device Marking | Zener Voltage<br>/ P U F |     |       |            | Max. Zener Impedance<br>/ P U F |                   |      | Max Reverse Leakage<br>Current / P U F |    |
|-----------|----------------|--------------------------|-----|-------|------------|---------------------------------|-------------------|------|----------------------------------------|----|
|           |                | $V_z(V)$                 |     |       | @ $I_{zT}$ | $Z_{zt} @ I_{zT}$               | $Z_{zk} @ I_{zk}$ |      | $I_R @ V_R$                            |    |
|           |                | Min                      | Nom | Max   | mA         |                                 |                   | mA   | uA                                     | V  |
| MMSZ5253B | HK3            | 23.75                    | 25  | 26.25 | 5.0        | 35                              | 600               | 0.25 | 0.1                                    | 19 |
| MMSZ5254B | HK4            | 25.65                    | 27  | 28.35 | 4.6        | 41                              | 600               | 0.25 | 0.1                                    | 21 |
| MMSZ5255B | HK5            | 26.60                    | 28  | 29.40 | 4.5        | 44                              | 600               | 0.25 | 0.1                                    | 21 |
| MMSZ5256B | HM1            | 28.50                    | 30  | 31.50 | 4.2        | 49                              | 600               | 0.25 | 0.1                                    | 23 |
| MMSZ5257B | HM2            | 31.35                    | 33  | 34.65 | 3.8        | 58                              | 700               | 0.25 | 0.1                                    | 25 |
| MMSZ5258B | HM3            | 34.20                    | 36  | 37.80 | 3.4        | 70                              | 700               | 0.25 | 0.1                                    | 27 |

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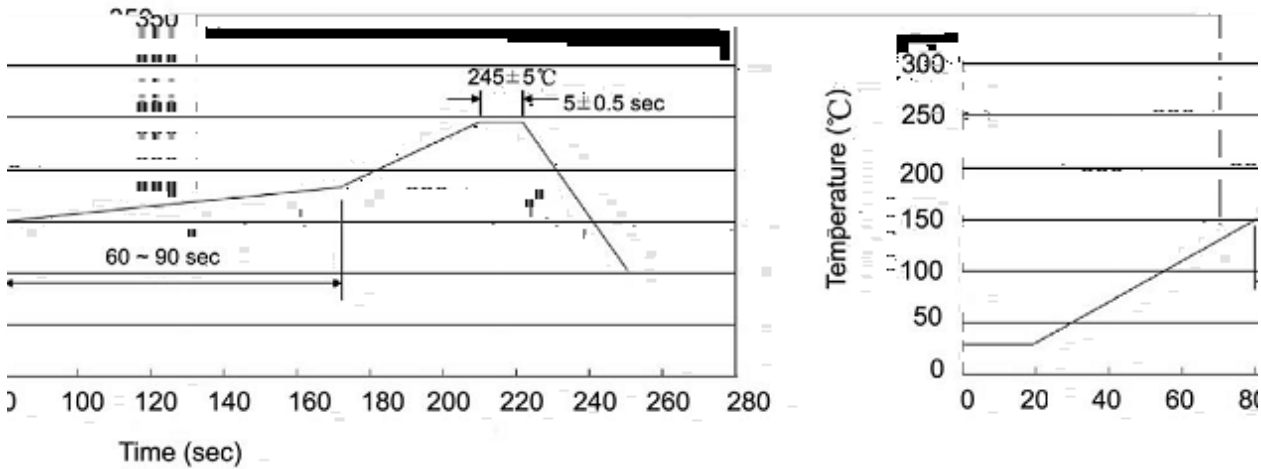




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Note:

- |   |     |     |    |          |                                         |
|---|-----|-----|----|----------|-----------------------------------------|
| 1 | 150 | 180 | 60 | 90sec;   | 1.Preheating:150~180 , 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.            |

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260 5 10 1 sec. Temp.:260 5 Time:10 1 sec

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/ REEL

| Package Type<br>ß m ù ´ | Units g m ô h      |                           |                       |                              |                       | Dimension g m d Ê (unit ! mm <sup>3</sup> ) |             |             |
|-------------------------|--------------------|---------------------------|-----------------------|------------------------------|-----------------------|---------------------------------------------|-------------|-------------|
|                         | Units/Reel<br>/  í | Reels/Inner Box<br>  í /ç | Units/Inner Box<br>/ç | Inner Boxes/Outer Box<br>ç/± | Units/Outer Box<br>/± | Reel                                        | Inner Boxç  | Outer Box±  |
| SOD-123                 | 3,000              | 10                        | 30,000                | 6                            | 180,000               | s x8                                        | 180×120×180 | 390×385×205 |

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