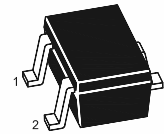
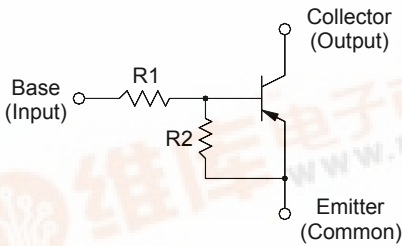


# MMDTA115W

查询"MMDTA115W"供应商

## PNP Silicon Epitaxial Planar Digital Transistor



1.Base 2.Emitter 3.Collector  
SOT-323 Plastic Package

### Resistance Values

| Type      | R1 (KΩ) | R2 (KΩ) |
|-----------|---------|---------|
| MMDTA115W | 100     | 100     |

### Absolute Maximum Ratings (T<sub>a</sub> = 25 °C)

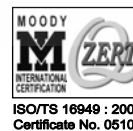
| Parameter                 | Symbol            | Value         | Unit |
|---------------------------|-------------------|---------------|------|
| Collector Emitter Voltage | -V <sub>CEO</sub> | 50            | V    |
| Emitter Base Voltage      | V <sub>EBO</sub>  | - 40 to + 10  | V    |
| Collector Current         | -I <sub>C</sub>   | 100           | mA   |
| Total Power Dissipation   | P <sub>tot</sub>  | 200           | mW   |
| Junction Temperature      | T <sub>j</sub>    | 150           | °C   |
| Storage Temperature Range | T <sub>s</sub>    | - 55 to + 150 | °C   |

### Characteristics at T<sub>a</sub> = 25 °C

| Parameter                                                                                    | Symbol               | Min. | Typ. | Max. | Unit |
|----------------------------------------------------------------------------------------------|----------------------|------|------|------|------|
| DC Current Gain<br>at -V <sub>CE</sub> = 5 V, -I <sub>C</sub> = 5 mA                         | h <sub>FE</sub>      | 82   | -    | -    | -    |
| Collector Base Cutoff Current<br>at -V <sub>CB</sub> = 50 V                                  | -I <sub>CBO</sub>    | -    | -    | 500  | nA   |
| Emitter Base Cutoff Current<br>at -V <sub>EB</sub> = 5 V                                     | -I <sub>EBO</sub>    | -    | -    | 0.15 | mA   |
| Collector Emitter Saturation Voltage<br>at -I <sub>C</sub> = 5 mA, -I <sub>B</sub> = 0.25 mA | -V <sub>CEsat</sub>  | -    | -    | 0.3  | V    |
| Input Off Voltage<br>at -V <sub>CE</sub> = 5 V, -I <sub>C</sub> = 100 μA                     | -V <sub>I(off)</sub> | 0.5  | -    | -    | V    |
| Input On Voltage<br>at -V <sub>CE</sub> = 0.3 V, -I <sub>C</sub> = 1 mA                      | -V <sub>I(on)</sub>  | -    | -    | 3    | V    |
| Transition Frequency<br>at -V <sub>CE</sub> = 10 V, I <sub>E</sub> = 5 mA, f = 100 MHz       | f <sub>T</sub>       | -    | 250  | -    | MHz  |
| Input Resistance                                                                             | R1                   | 70   | 100  | 130  | KΩ   |
| Resistance Ratio                                                                             | R2/R1                | 0.8  | 1    | 1.2  | -    |

## SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company  
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