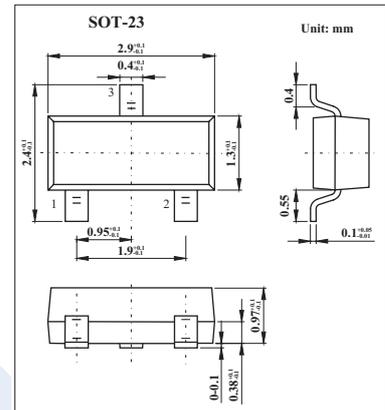
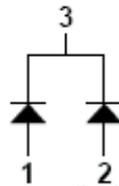


## Small Signal Diode

### MMBD2838(KMBD2838)

#### ■ Features

- Ultra small mold type
- High reliability.
- High speed switching



#### ■ Absolute Maximum Ratings Ta = 25°C

| Parameter                                 | Symbol             | Rating      | Unit |
|---|--------------------|-------------|------|
| Maximum Repetitive Reverse Voltage        | V <sub>RRM</sub>   | 75          | V    |
| Average Rectified Forward Current         | I <sub>F(AV)</sub> | 200         | mA   |
| Non-repetitive Peak Forward Surge Current | I <sub>FSM</sub>   | 1.0         | A    |
| Pulse Width = 1.0 second                  |                    | 2.0         | A    |
| Power Dissipation                         | P <sub>D</sub>     | 350         | mW   |
| Thermal Resistance, Junction to Ambient   | R <sub>θJA</sub>   | 357         | °C/W |
| Storage Temperature Range                 | T <sub>stg</sub>   | -55 to +150 | °C   |
| Operating Junction Temperature            | T <sub>J</sub>     | -55 to +150 | °C   |

#### ■ Electrical Characteristics Ta = 25°C

| Parameter             | Symbol          | Testconditions  | Min | Typ | Max | Unit |
|-----------------------|-----------------|---|-----|-----|-----|------|
| Breakdown Voltage     | V <sub>R</sub>  | I <sub>R</sub> = 100 μA   | 75  |     |     | V    |
| Forward Voltage       | V <sub>F</sub>  | I <sub>F</sub> = 50 mA  |     |     | 1.0 | V    |
|                       |                 | I <sub>F</sub> = 100 mA   |     |     | 1.2 | V    |
| Reverse Current       | I <sub>R</sub>  | V <sub>R</sub> = 50 V   |     |     | 100 | nA   |
| Total Capacitance     | C <sub>T</sub>  | V <sub>R</sub> = 0, f = 1.0 MHz   |     |     | 4.0 | pF   |
| Reverse Recovery Time | t <sub>rr</sub> | I <sub>F</sub> = I <sub>R</sub> = 10 mA, I <sub>RR</sub> = 1.0 mA, R <sub>L</sub> = 100 Ω |     |     | 4.0 | ns   |

#### ■ Marking

|         |    |
|---------|----|
| Marking | A6 |
|---------|----|