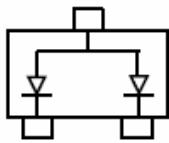


## Plastic-Encapsulate Diodes

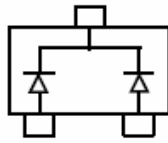
### SCHOTTKY BARRIER DIODE

#### FEATURES

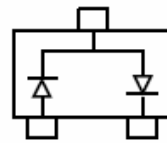
- For low-loss, fast-recovery, meter protection, bias isolation and clamping applications
- Integrated diffused guard ring
- Low forward voltage



**BAT64-06 MARKING:66S**

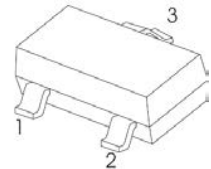


**BAT64-05 MARKING:65S**



**BAT64-04 MARKING: 64S**

#### SOT-23



| BAT64-06 | BAT64-05 | BAT64-04 |
|----------|----------|----------|
|          |          |          |

Solid dot = Green molding compound device,if none, the normal device.

#### Maximum Ratings @T<sub>a</sub>=25°C

| Parameter                                          | Symbol           | Limits     | Unit |
|----------------------------------------------------|------------------|------------|------|
| Peak reverse voltage                               | V <sub>RM</sub>  | 40         | V    |
| DC reverse                                         | V <sub>R</sub>   |            |      |
| Non-repetitive Peak forward surge current @t=8.3ms | I <sub>FSM</sub> | 0.8        | A    |
| Forward current                                    | I <sub>F</sub>   | 0.25       | A    |
| Power Dissipation                                  | P <sub>D</sub>   | 250        | mW   |
| Thermal Resistance Junction-to-Ambient             | R <sub>θJA</sub> | 400        | °C/W |
| Operating Junction Temperature Range               | T <sub>j</sub>   | -40 ~ +125 | °C   |
| Storage Temperature Range                          | T <sub>stg</sub> | -55 ~ +150 | °C   |

#### Electrical Ratings @T<sub>a</sub>=25°C

| Parameter                     | Symbol         | Min. | Typ. | Max.                     | Unit | Test Conditions                                                                              |
|-------------------------------|----------------|------|------|--------------------------|------|----------------------------------------------------------------------------------------------|
| Reverse breakdown voltage     | V <sub>R</sub> | 40   |      |                          | V    | I <sub>R</sub> =10μA                                                                         |
| Forward voltage               | V <sub>F</sub> |      |      | 350<br>430<br>520<br>750 | mV   | I <sub>F</sub> =1mA<br>I <sub>F</sub> =10mA<br>I <sub>F</sub> =30mA<br>I <sub>F</sub> =100mA |
| Reverse current               | I <sub>R</sub> |      |      | 2                        | μA   | V <sub>R</sub> =25V                                                                          |
| Capacitance between terminals | C <sub>T</sub> |      | 6    |                          | pF   | V <sub>R</sub> =1V,f=1MHz                                                                    |

## Typical Characteristics

