



# RECTRON

## SEMICONDUCTOR

### TECHNICAL SPECIFICATION

# SD4150

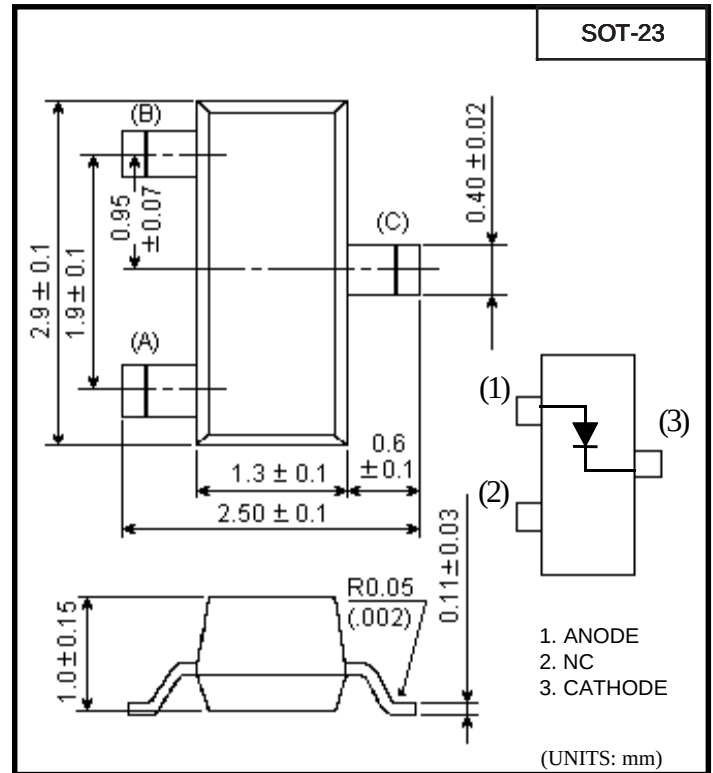
## SURFACE MOUNT 1N4150 DIODE

### Absolute Maximum Ratings (Ta=25°C)

| ITEMS                           | SYMBOL | RATINGS    | UNIT |
|---------------------------------|--------|------------|------|
| Reverse Voltage                 | VR     | 50         | V    |
| Reverse Recovery Time           | trr    | 6          | ns   |
| Forward Voltage<br>@ If = 50 mA | VF     | 0.86       | V    |
| Forward Current                 | IF     | 300        | mA   |
| Junction Temp.                  | Tj     | -55 to 150 | °C   |
| Storage Temp.                   | Tstg   | -55 to 150 | °C   |

### Mechanical Data

| ITEMS       | MATERIALS      |
|-------------|----------------|
| Package     | SOT-23         |
| Lead Frame  | 42 Alloy       |
| Lead Finish | Solder Plating |
| Bond Wire   | Au             |
| Mold Resin  | Epoxy          |
| Chip        | Silicon        |



### Electrical Characteristics (Ta=25°C)

| RATINGS                                                                      | SYMBOL | RATINGS                              | UNIT |
|------------------------------------------------------------------------------|--------|--------------------------------------|------|
| Reverse Voltage IR= 100uA                                                    | VR     | 50                                   | V    |
| Repetitive Peak Reverse Voltage                                              | VRRM   | 75                                   | V    |
| Repetitive Peak Forward Current                                              | IFRM   | 600                                  | mA   |
| Forward Voltage<br>IF= 1mA<br>IF= 10mA<br>IF= 50mA<br>IF= 100mA<br>IF= 200mA | VF     | 0.62<br>0.74<br>0.86<br>0.92<br>1.00 | V    |
| Reverse Current<br>VR= 50V<br>VR= 50V (Tj= 150°C)                            | IR     | 0.10<br>100                          | uA   |
| Junction Capacitance VR = 0 V, f = 1MHz                                      | Cj     | 2.5                                  | pF   |

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