



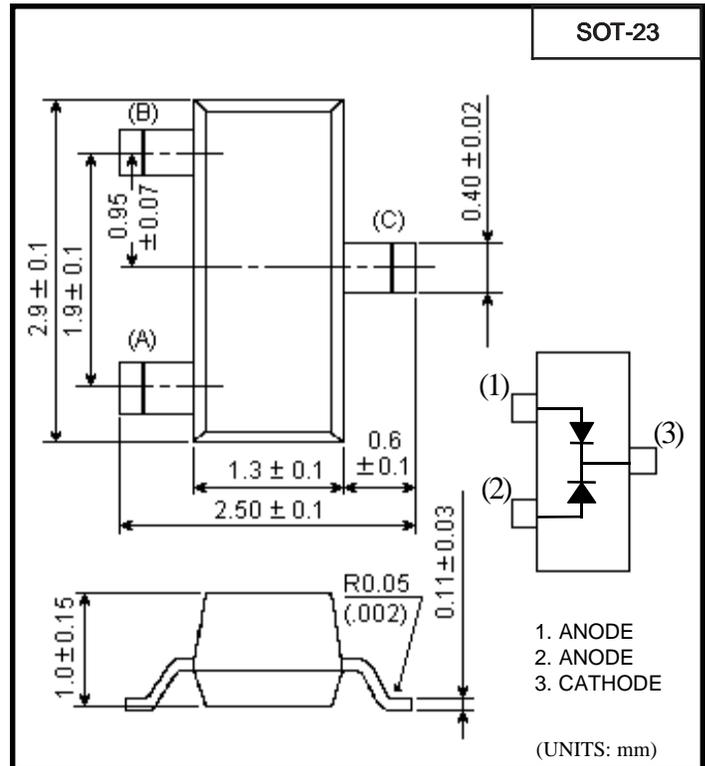
**SURFACE MOUNT, DUAL 1N4148 COMMON CATHODE DIODE**

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

| Items                        | Symbol | Ratings    | Unit |
|------------------------------|--------|------------|------|
| Reverse Voltage              | VR     | 70         | V    |
| Reverse Recovery Time        | trr    | 4          | ns   |
| Forward Voltage @ If = 50 mA | VF     | 1.0        | V    |
| Forward Current              | IF     | 215        | 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 per Diode (Ta=25°C)**

| Ratings                                                                  | Symbol | Ratings                    | Unit |
|--------------------------------------------------------------------------|--------|----------------------------|------|
| Reverse Voltage IR= 100uA                                                | VR     | 70                         | V    |
| Repetitive Peak Reverse Voltage                                          | VRRM   | 75                         | V    |
| Repetitive Peak Forward Current                                          | IFRM   | 450                        | mA   |
| Forward Voltage<br>IF= 1mA<br>IF= 10mA<br>IF= 50mA<br>IF= 150mA          | VF     | 715<br>855<br>1000<br>1250 | mV   |
| Reverse Current<br>VR= 75V<br>VR= 25V (Tj= 150°C)<br>VR= 75V (Tj= 150°C) | IR     | 2.5<br>60<br>100           | uA   |
| Junction Capacitance VR = 0 V, f = 1MHz                                  | Cj     | 1.5                        | pF   |
| Reverse Recovery Time IF= IR= 10mA; RL= 100 ohms                         | trr    | 4                          | ns   |
| Thermal Resistance (junction to ambient)                                 | RθJA   | 500                        | °C/W |