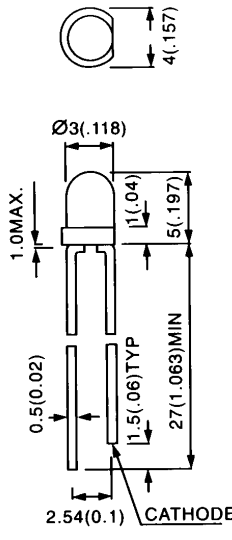
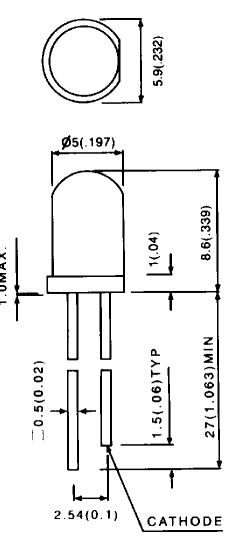


## INFRARED EMITTING DIODE SPECIFICATION

| PART NUMBER:   | SB-3010IRB                                    | 3mm Blue Transparent Lens               |   |                                      |                                  |                                |
|--|---|---|---|--------------------------------------|----------------------------------|--------------------------------|
|  | SB-3010IRC                                    | 3mm Water Clear Lens                    |   |                                      |                                  |                                |
|  <p>Tolerance: <math>\pm 0.25(0.01)</math><br/>Unit: mm(inch)</p> | Absolute Maximum Rating (Ta = 25°C)           |   |   |                                      |                                  |                                |
|  | Forward Current<br>If (mA)                    | Pulse<br>Forward Current<br>IFP (A)     | Power<br>Dissipation<br>PD (mW)               | Reverse<br>Votatge<br>VR (V)         | Operating<br>Temperature<br>(°C) | Storage<br>Temperature<br>(°C) |
|  | 100   | 1                                       | 150   | 5                                    | -25 ~ +70                        | -25 ~ +80                      |
|  | Electro – Optical Characteristics (Ta = 25°C) |   |   |                                      |                                  |                                |
|  | Forward<br>Voltage VF (V)<br>@ IF = 100mA     | Reverse Current<br>IR (uA)<br>@ VR = 5V | Wave Length<br>$\lambda$ (nm)<br>@ IF = 100mA | Capacitance<br>Ct (pF)<br>@ f = 1MHz | Radiand<br>Intensity<br>(m W/sr) | View Angle<br>(deg)            |
|  | 1.5   | 10                                      | 940   | 25                                   | 10                               | 20                             |

| PART NUMBER:   | SB-5010IRB                                    | 5mm Blue Transparent Lens               |   |                                      |                                  |                                |
|--|---|---|---|--------------------------------------|----------------------------------|--------------------------------|
|  | SB-5010IRC                                    | 5mm Water Clear Lens                    |   |                                      |                                  |                                |
|  <p>Tolerance: <math>\pm 0.25(0.01)</math><br/>Unit: mm(inch)</p> | Absolute Maximum Rating (Ta = 25°C)           |   |   |                                      |                                  |                                |
|  | Forward Current<br>If (mA)                    | Pulse<br>Forward Current<br>IFP (A)     | Power<br>Dissipation<br>PD (mW)               | Reverse<br>Votatge<br>VR (V)         | Operating<br>Temperature<br>(°C) | Storage<br>Temperature<br>(°C) |
|  | 100   | 1                                       | 150   | 5                                    | -25 ~ +70                        | -25 ~ +80                      |
|  | Electro – Optical Characteristics (Ta = 25°C) |   |   |                                      |                                  |                                |
|  | Forward<br>Voltage VF (V)<br>@ IF = 100mA     | Reverse Current<br>IR (uA)<br>@ VR = 5V | Wave Length<br>$\lambda$ (nm)<br>@ IF = 100mA | Capacitance<br>Ct (pF)<br>@ f = 1MHz | Radiand<br>Intensity<br>(m W/sr) | View Angle<br>(deg)            |
|  | 1.5   | 10                                      | 940   | 25                                   | 20                               | 50                             |