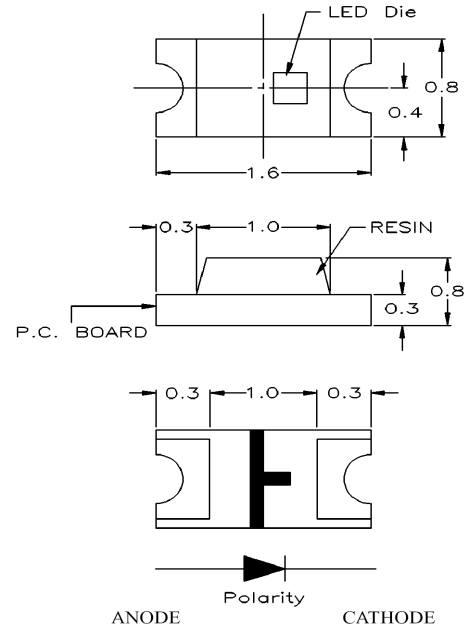


Features

Compatible with Automatic Placement Equipment
 Compatible with Infrared and Vapor Phase Reflow Solder Process
 IC Compatible
 Industry Standard 0603 Footprint
 JEDEC Preconditions Stress Tested
 Water Clear Lens



Series Line-Up

| Part Number | Color | Material |
|---------------|---------------------------|----------|
| MTSM9100LB-AR | Ultra Bright Red | GaAlAs |
| MTSM9100LB-G | Yellow Green | GaP |
| MTSM9100LB-UA | Ultra Bright Red/Orange | InGaAlP |
| MTSM9100LB-UG | Ultra Bright Yellow-Green | InGaAlP |
| MTSM9100LB-UO | Ultra High Efficiency Red | InGaAlP |
| MTSM9100LB-UR | Ultra Bright Red | InGaAlP |
| MTSM9100LB-UY | Ultra Bright Yellow | InGaAlP |
| MTSM9100LB-Y | Pure Yellow | GaAsP |

Notes :

1. All dimensions are in millimeters .
2. Tolerance is $\pm 0.25\text{mm}$ unless otherwise noted.

Maximum Ratings (Ta=25°C)

| Part Number | Forward Current I_F | Reverse Voltage V_R | Power Dissipation P_D | Operating Temperature T_{opr} | Storage Temperature T_{stg} |
|---------------|-----------------------|-----------------------|-------------------------|---------------------------------|-------------------------------|
| MTSM9100LB-AR | 30 | 5 | 78.00 | -30 ~ +80 | -40 ~ +85 |
| MTSM9100LB-G | 30 | 5 | 65.00 | -30 ~ +80 | -40 ~ +85 |
| MTSM9100LB-UA | 30 | 5 | 78.00 | -30 ~ +80 | -40 ~ +85 |
| MTSM9100LB-UG | 30 | 5 | 78.00 | -30 ~ +80 | -40 ~ +85 |
| MTSM9100LB-UO | 30 | 5 | 78.00 | -30 ~ +80 | -40 ~ +85 |
| MTSM9100LB-UR | 30 | 5 | 78.00 | -30 ~ +80 | -40 ~ +85 |
| MTSM9100LB-UY | 30 | 5 | 78.00 | -30 ~ +80 | -40 ~ +85 |
| MTSM9100LB-Y | 30 | 5 | 65.00 | -30 ~ +80 | -40 ~ +85 |
| Unit | mA | V | mW | °C | °C |

Electrical and Optical Characteristics (Ta=25°C)

| Part Number | PWL nm λ_P | Material | View Angle $2\theta_{1/2}$ | Luminous Intensity I_v | | | | Forward Voltage V_F | | | | Rev Current I_R | |
|---------------|-----------------------|----------|-------------------------------|-----------------------------|-------|------|------|--------------------------|------|------|------|----------------------|-----|
| | | | | min. | typ. | max. | IF@ | min. | typ. | max. | IF@ | max. | VR@ |
| MTSM9100LB-AR | 660 | GaAlAs | 140° | - | 45.00 | - | 20mA | - | 1.95 | 2.70 | 20mA | 10 | 5V |
| MTSM9100LB-G | 570 | GaP | 140° | - | 9.00 | - | 20mA | - | 2.25 | 2.70 | 20mA | 10 | 5V |
| MTSM9100LB-UA | 621 | InGaAlP | 140° | - | 80.00 | - | 20mA | - | 2.10 | 2.60 | 20mA | 10 | 5V |
| MTSM9100LB-UG | 574 | InGaAlP | 140° | - | 40.00 | - | 20mA | - | 2.20 | 2.70 | 20mA | 10 | 5V |
| MTSM9100LB-UO | 636 | InGaAlP | 140° | - | 70.00 | - | 20mA | - | 2.10 | 2.60 | 20mA | 10 | 5V |
| MTSM9100LB-UR | 644 | InGaAlP | 140° | - | 80.00 | - | 20mA | - | 2.10 | 2.60 | 20mA | 10 | 5V |
| MTSM9100LB-UY | 590 | InGaAlP | 140° | - | 70.00 | - | 20mA | - | 2.10 | 2.60 | 20mA | 10 | 5V |
| MTSM9100LB-Y | 585 | GaAsP | 140° | - | 6.00 | - | 20mA | - | 2.15 | 2.70 | 20mA | 10 | 5V |
| - | nm | - | deg | mcd | | | | - | V | | - | A | - |

Specification is subject to change without notice.