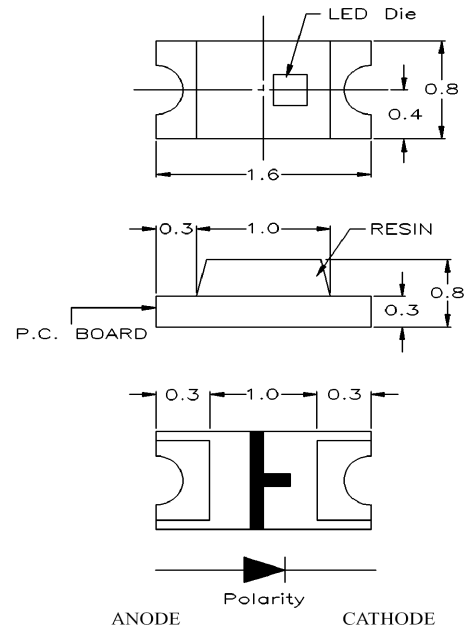


Features

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.