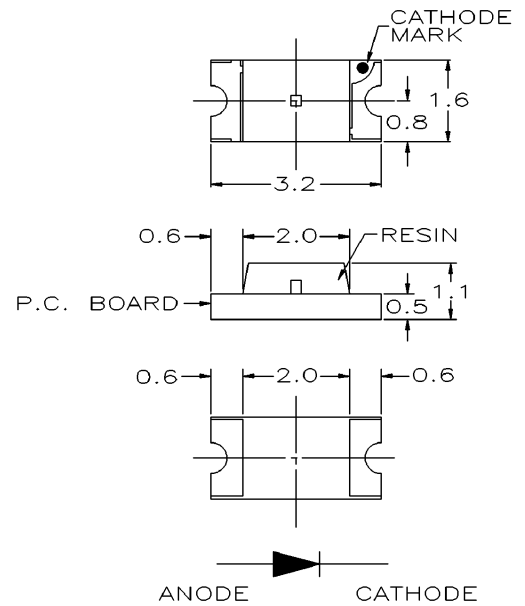


Features

Water clear package
 Compatible with automatic placement equipment
 Compatible with infrared and vapor phase reflow solder processes
 IC Compatible
 Industry standard footprint
 JEDEC precondition stress tested
 Long life solid state reliability

Package Dimensions



Series Line-Up

Part Number	Color	Material
MTSM5100LB-UA	Ultra Bright Orange	InGaAlP
MTSM5100LB-UG	Yellow Green	InGaAlP
MTSM5100LB-UO	Ultra Bright High Efficiency Red	InGaAlP
MTSM5100LB-UR	Ultra Bright Red	InGaAlP
MTSM5100LB-UY	Ultra Bright Yellow	InGaAlP
MTSM5100LB-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 If	Reverse Voltage Vr	Power Dissipation Pd	Operating Temperature Topr	Storage Temperature Tstg
MTSM5100LB-UA	30	5	78.00	-30 ~ +80	-40 ~ +85
MTSM5100LB-UG	30	5	78.00	-30 ~ +80	-40 ~ +85
MTSM5100LB-UO	30	5	78.00	-30 ~ +80	-40 ~ +85
MTSM5100LB-UR	30	5	85.00	-30 ~ +80	-40 ~ +85
MTSM5100LB-UY	30	5	78.00	-30 ~ +80	-40 ~ +85
MTSM5100LB-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@
MTSM5100LB-UA	612	InGaAlP	140°	-	65.00	-	20mA	-	2.10	2.60	20mA	10	5V
MTSM5100LB-UG	570	InGaAlP	140°	-	45.00	-	20mA	-	2.20	2.70	20mA	10	5V
MTSM5100LB-UO	630	InGaAlP	140°	-	80.00	-	20mA	-	2.10	2.60	20mA	10	5V
MTSM5100LB-UR	644	InGaAlP	140°	-	80.00	-	20mA	-	2.10	2.60	20mA	10	5V
MTSM5100LB-UY	593	InGaAlP	140°	-	70.00	-	20mA	-	2.10	2.60	20mA	10	5V
MTSM5100LB-Y	585	GaAsP	140°	-	6.00	-	20mA	-	2.10	2.70	20mA	10	5V
-	nm	-	deg	mcd			--	V			--	μA	-

Specifications are Subject to Change Without Notice

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