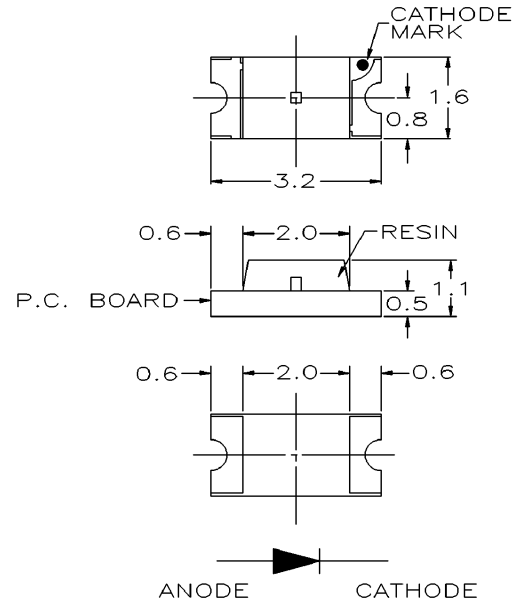


**Features**

- 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 I <sub>f</sub>	Reverse Voltage V <sub>R</sub>	Power Dissipation P <sub>d</sub>	Operating Temperature T <sub>opr</sub>	Storage Temperature T <sub>stg</sub>
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
<b>Unit</b>	<b>mA</b>	<b>V</b>	<b>mW</b>	<b>°C</b>	<b>°C</b>

**Electrical and Optical Characteristics (Ta=25°C)**

Part Number	PWL nm $\lambda_P$	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		--	$\mu A$	-

Specifications are Subject to Change Without Notice

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