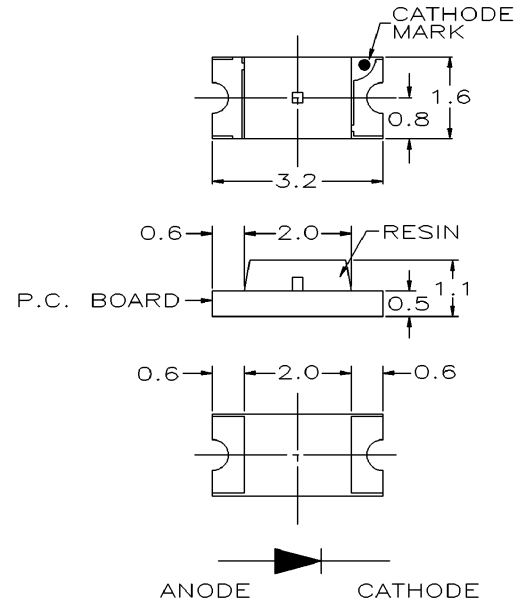


Features

- 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 _F	Reverse Voltage V _R	Power Dissipation P _D	Operating Temperature T _{opr}	Storage Temperature T _{stg}
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

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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	InGaAIP	140°	-	65.00	-	20mA	-	2.10	2.60	20mA	10	5V		
MTSM5100LB-UG	570	InGaAIP	140°	-	45.00	-	20mA	-	2.20	2.70	20mA	10	5V		
MTSM5100LB-UO	630	InGaAIP	140°	-	80.00	-	20mA	-	2.10	2.60	20mA	10	5V		
MTSM5100LB-UR	644	InGaAIP	140°	-	80.00	-	20mA	-	2.10	2.60	20mA	10	5V		
MTSM5100LB-UY	593	InGaAIP	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				--	μ A	-

Specifications are Subject to Change Without Notice

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