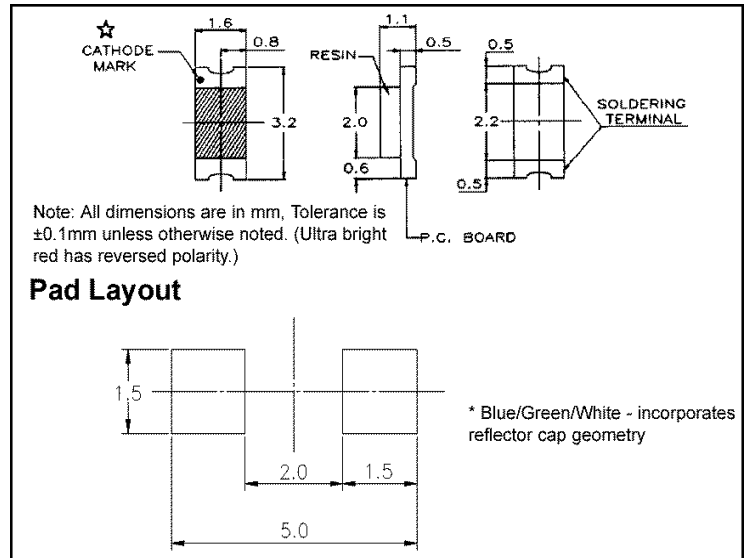


**Features**

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



**Series Line-Up**

Part Number	Color	Material
MTSM5100LA-AR	Ultra Bright Red	InGaAlP
MTSM5100LA-G	Yellow Green	GaP
MTSM5100LA-UA	Orange	GaAsP
MTSM5100LA-UG	Yellow Green	GaP
MTSM5100LA-UO	Ultra Red	InGaAlP
MTSM5100LA-UR	Ultra Bright Red	GaAlAs
MTSM5100LA-UY	Ultra Bright Yellow	InGaAlP

**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>
MTSM5100LA-AR	30	4	85.00	-30 ~ 85	-30 ~100
MTSM5100LA-G	30	5	70.00	-30 ~ 85	-30 ~100
MTSM5100LA-UA	30	4	85.00	-30 ~ 85	-30 ~100
MTSM5100LA-UG	30	4	85.00	-30 ~ 85	-30 ~100
MTSM5100LA-UO	30	4	85.00	-30 ~ 85	-30 ~100
MTSM5100LA-UR	30	4	70.00	-30 ~100	-30 ~100
MTSM5100LA-UY	30	4	85.00	-30 ~ 85	-30 ~100
<b>Unit</b>	<b>mA</b>	<b>V</b>	<b>mW</b>	<b>°C</b>	<b>°C</b>

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**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@
MTSM5100LA-AR	644	InGaAlP	170°	20.00	35.00	-	20mA	-	2.10	2.80	20mA	100	4V
MTSM5100LA-G	570	GaP	170°	5.00	10.00	-	20mA	-	2.20	2.60	20mA	100	5V
MTSM5100LA-UA	610	GaAsP	170°	25.00	45.00	-	20mA	-	2.10	2.80	20mA	100	4V
MTSM5100LA-UG	570	GaP	170°	15.00	30.00	-	20mA	-	2.20	2.80	20mA	100	4V
MTSM5100LA-UO	636	InGaAlP	170°	25.00	45.00	-	20mA	-	2.10	2.80	20mA	100	4V
MTSM5100LA-UR	660	GaAlAs	170°	9.00	17.00	-	20mA	-	1.80	2.20	20mA	100	4V
MTSM5100LA-UY	590	InGaAlP	170°	25.00	45.00	-	20mA	-	2.10	2.80	20mA	100	4V
-	nm	-	deg	mcd				-	V		-	$\mu A$	-