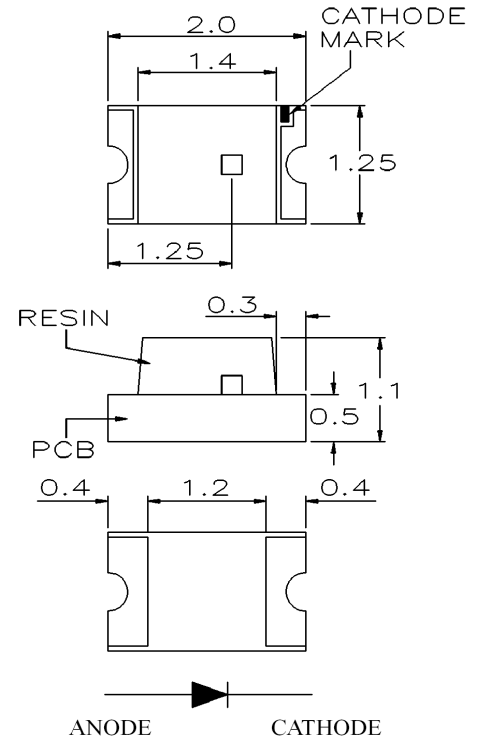


**Features**

Industry Standard 0805 standard Footprint  
 Compatible with Automatic Placement Equipment  
 Long Life Solid State Reliability  
 IC Compatible  
 Note: "AR" Ultrabright Red has reversed polarity

**Series Line-Up**

Part Number	Color	Material
MTSM7100LB-AR	Ultra Bright Red	GaAlAs
MTSM7100LB-G	Super Green	GaP
MTSM7100LB-UA	Orange	InGaAlP
MTSM7100LB-UBL	Blue	InGaN
MTSM7100LB-UG	Ultra Bright Yellow-Green	InGaAlP
MTSM7100LB-UO	Ultra Bright High Efficiency Red	InGaAlP
MTSM7100LB-UR	Ultra Bright Red	InGaAlP
MTSM7100LB-UY	Ultra Bright Yellow	InGaAlP
MTSM7100LB-Y	Ultra Pure Yellow	GaAsP



Notes :

1. All dimensions are in millimeters .
2. Tolerance is  $\pm 0.25$ 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>
MTSM7100LB-AR	30	5	78.00	-30 ~ +80	-40 ~ +85
MTSM7100LB-G	30	5	65.00	-30 ~ +80	-40 ~ +85
MTSM7100LB-UA	30	5	78.00	-30 ~ +80	-40 ~ +85
MTSM7100LB-UBL	20	5	84.00	-30 ~ +80	-40 ~ +85
MTSM7100LB-UG	30	5	78.00	-30 ~ +80	-40 ~ +85
MTSM7100LB-UO	30	5	78.00	-30 ~ +80	-40 ~ +85
MTSM7100LB-UR	30	5	78.00	-30 ~ +80	-40 ~ +85
MTSM7100LB-UY	30	5	78.00	-30 ~ +80	-40 ~ +85
MTSM7100LB-Y	30	5	65.00	-30 ~ +80	-40 ~ +80
<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@
MTSM7100LB-AR	660	GaAlAs	140°	-	45.00	-	20mA	-	1.95	2.50	20mA	10	5V
MTSM7100LB-G	562	GaP	140°	-	10.00	-	20mA	-	2.25	2.70	20mA	10	5V
MTSM7100LB-UA	610	InGaAIP	140°	-	70.00	-	20mA	-	2.10	2.60	20mA	10	5V
MTSM7100LB-UBL	468	InGaN	140°	-	38.00	-	20mA	-	3.50	4.20	20mA	10	5V
MTSM7100LB-UG	574	InGaAIP	140°	-	45.00	-	20mA	-	2.20	2.70	20mA	10	5V
MTSM7100LB-UO	630	InGaAIP	140°	-	70.00	-	20mA	-	2.10	2.60	20mA	10	5V
MTSM7100LB-UR	644	InGaAIP	140°	-	80.00	-	20mA	-	2.10	2.60	20mA	10	5V
MTSM7100LB-UY	593	InGaAIP	140°	-	75.00	-	20mA	-	2.10	2.60	20mA	10	5V
MTSM7100LB-Y	583	InGaAIP	140°	-	6.00	-	20mA	-	2.15	2.70	20mA	10	5V
-	nm	-	deg	mcd				--	V		--	$\mu$ A	-

Specifications are Subject to Change Without Notice

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