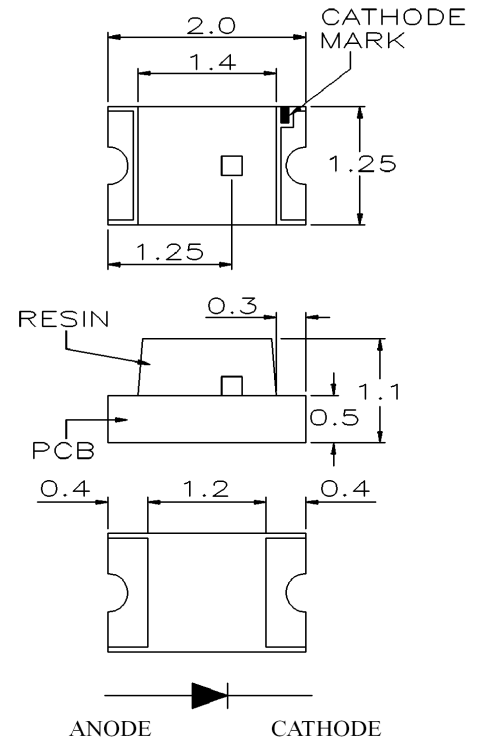


Features

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	InGaAIP
MTSM7100LB-UBL	Blue	InGaN
MTSM7100LB-UG	Ultra Bright Yellow-Green	InGaAIP
MTSM7100LB-UO	Ultra Bright High Efficiency Red	InGaAIP
MTSM7100LB-UR	Ultra Bright Red	InGaAIP
MTSM7100LB-UY	Ultra Bright Yellow	InGaAIP
MTSM7100LB-Y	Ultra 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}
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
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@
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		--	μA	-

Specifications are Subject to Change Without Notice

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