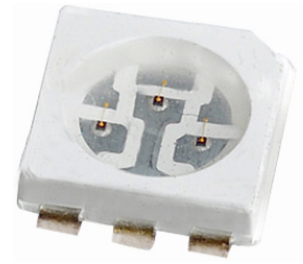


TSL-5050UR000MTH



FEATURES

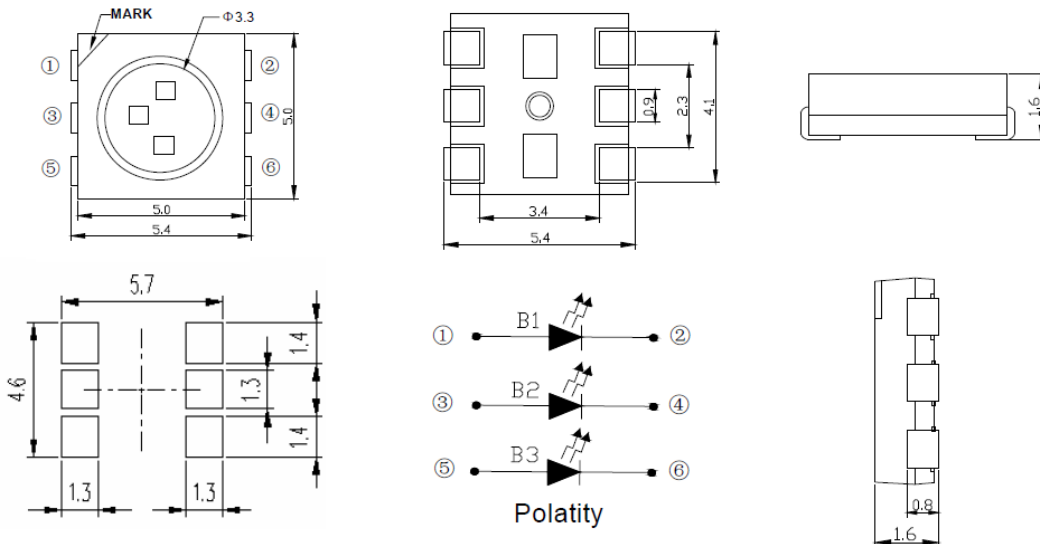
- Wide Viewing Angle 120°
- Reflow Solderable
- High Luminous Intensity and Low Power Dissipation
- Good Reliability and Long Life
- Complied With RoHS Directive

APPLICATIONS

- Optical indicator
- Indoor display
- Backlighting in dashboard and switch
- Flat Backlighting for LCD, symbol and display
- General use

TECHNICAL DATA SHEET

This product is generally used as indicator and luminary for electronic equipment such as household appliance, communication equipment and dashboard.



Notes:

1. All dimension units are millimeters.
2. All dimension tolerance is $\pm 0.2\text{mm}$ unless otherwise noted.

Selection Guide

Dice	Lens Type	Luminous intensity (mcd) @ 20mA			Viewing Angle 2 θ 1/2
		Min (R/R/R)	Typ (R/R/R)	Max (R/R/R)	
Red (AlGaInP)	Water Clear	100/ 100/ 100	300/ 300/ 300	600/ 600/ 600	120

Note:

1. 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. The above luminous intensity measurement allowance tolerance $\pm 10\%$

Electrical / Optical Characteristics at Ta=25°C

Parameter	Symbol	Min. (R/R/R)	Typ. (R/R/R)	Max (R/R/R)	Units	Test conditions
Forward Voltage	VF	1.8/ 1.8/ 1.8	2.0/ 2.0/ 2.0	2.4/ 2.4/ 2.4	V	IF=20mA
Reverse Current	IR	--	--	10	uA	VR=5V
Dominant Wavelength	λ_d	620	--	635	nm	IF=20mA

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Units
Power Dissipation	Pd	100	mW
DC Forward Current	IF	25	mA
Peak Forward Current 【1】	IFP	100	mA
Reverse Voltage	VR	5	V
Electrostatic Discharge (HBM)	ESD	± 2000	V
Operating Temperature	Topr	-30~+85	°C
Storage Temperature	Tstg	-40~+100	°C

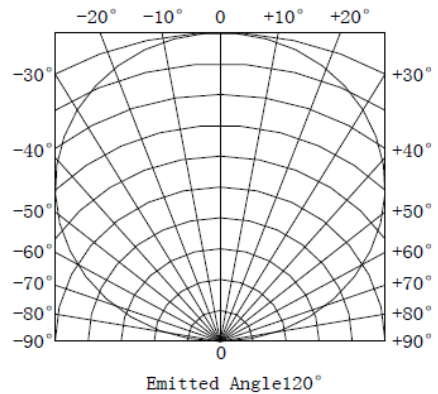
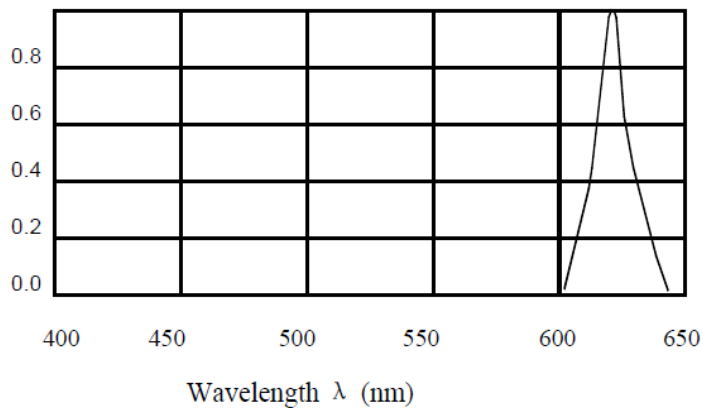
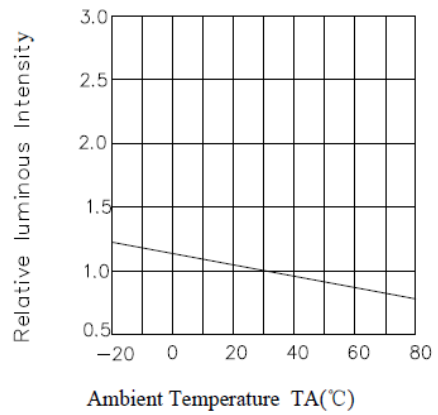
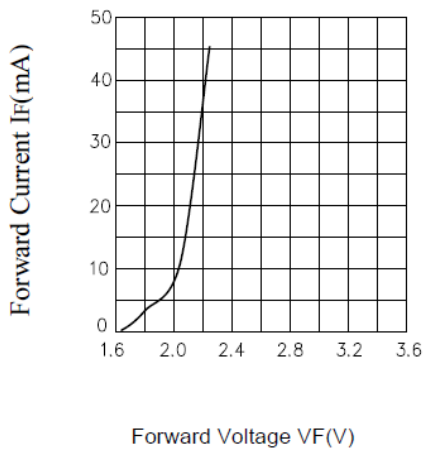
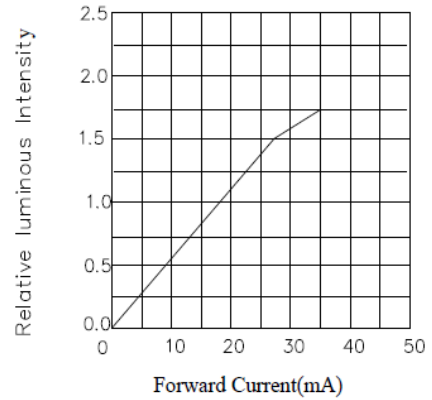
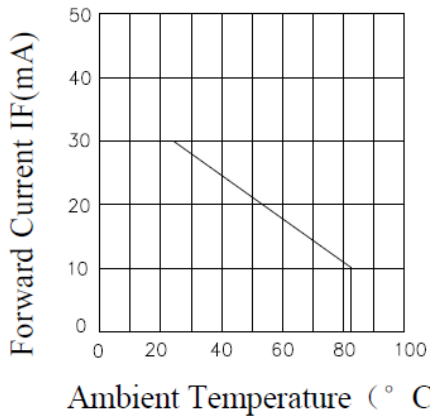
Note:

1. 1/10 Dut cycle, 0.1ms pulse width.
2. The above forward voltage measure ment allowance tolerance $\pm 0.1\text{V}$.

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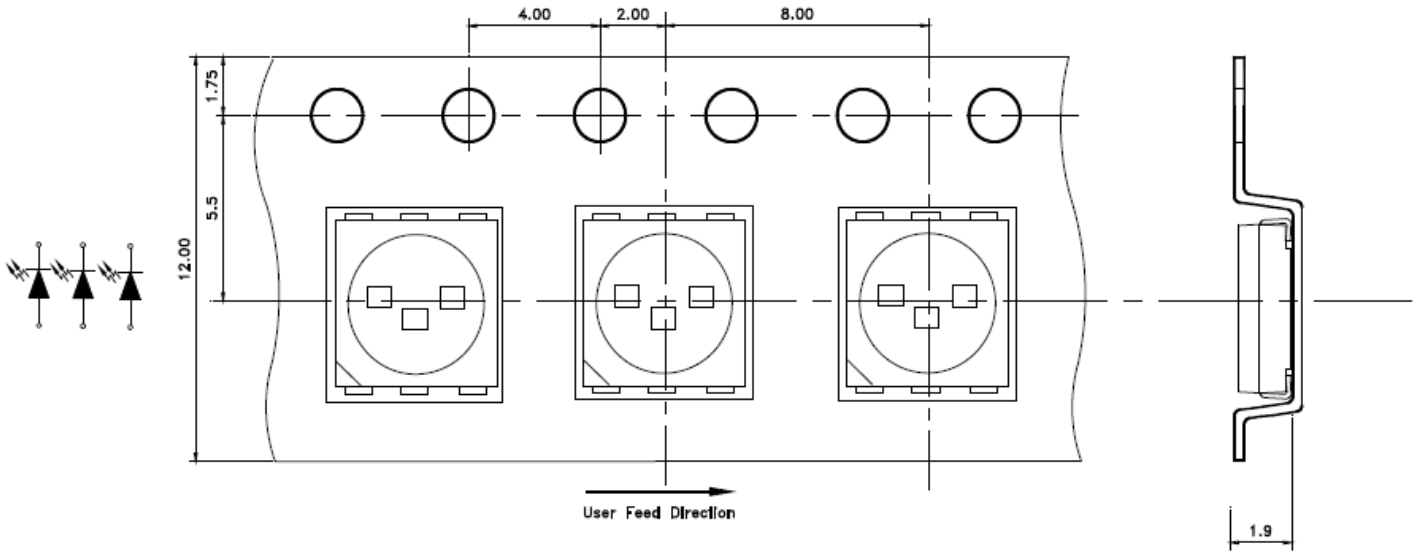
Typical Optical Characteristics Curves

Ambient Temperature VS. Forward Current

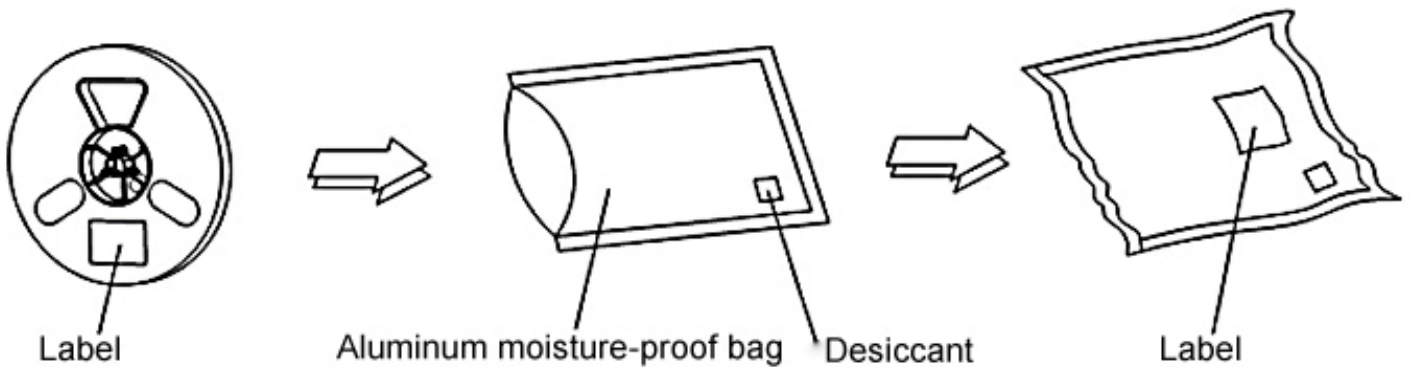


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Carrier Tape



Moisture Resistant Packaging



Note: Specification are subject to change without notice. For more detail and update, please visit our website.