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SPECIFICATION

PART NO. : MT7672F -UY 5.2×4.6mm OVAL LED LAMP



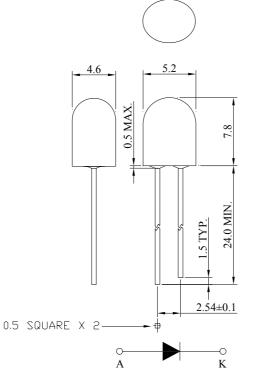




Description

This yellow lamp is made with AlGaInP/GaP chip and yellow diffused

epoxy resin.



Notes:

- 1. All dimensions are in mm.
- 2. Tolerance is \pm 0.25mm unless otherwise noted.

Description

	LED C		
Part No.	Material	Emitting Color	Lens Color
O V7692F/W[AlGaInP/GaP	Yellow	Yellow diffused

Absolute Maximum Ratings at Ta=25

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	130	mW
Reverse Voltage	Vr	5	V
D.C. Forward Current	If	50	mA
Reverse (Leakage) Current	Ir	100	μA
Peak Current(1/10Duty Cycle,0.1ms Pulse Width.)	If(Peak)	200	mA
Operating Temperature Range	Topr	-40 to +95	
Storage Temperature Range	Tstg	-40 to +100	
Soldering Temperature(1.6mm from body)	Tsol	1 0	For 5 sec. For 3 sec.

Electrical and Optical Characteristics:

Parameter		Symbol	Condition	Min.	Тур.	Max.	Unit
Luminous Intens	ity	Iv	If=20mA	1520	2000		mcd
Forward Voltage		Vf	If=20mA		2.1	2.6	V
Peak Wavelength	l	λp	If=20mA		591		nm
Dominant Wavel	ength	λd	If=20mA	584	589	593	nm
Reverse (Leakag	e) Current	Ir	Vr=5V			100	μA
X7 A 1-	VERTICAL	2 1/2	If=20mA		40		4
ViewingAngle	HORIZONTAL	2 1/2	If=20mA		70) deg	
Spectrum Line H	alfwidth	Δλ	If=20mA		15		nm

Notes:1. The datas tested by IS tester.

2. Customer's special requirements are also welcome.



Specifications for Bin Grading:

Iv(mcd)		
BIN	MIN.	MAX.
U	1520	2130
V	2130	3000

Specifications for Vf Group:

Vf(V)		
Group	MIN.	MAX.
V1	1.6	1.8
V2	1.8	2.0
V3	2.0	2.2
V4	2.2	2.4
V5	2.4	2.6

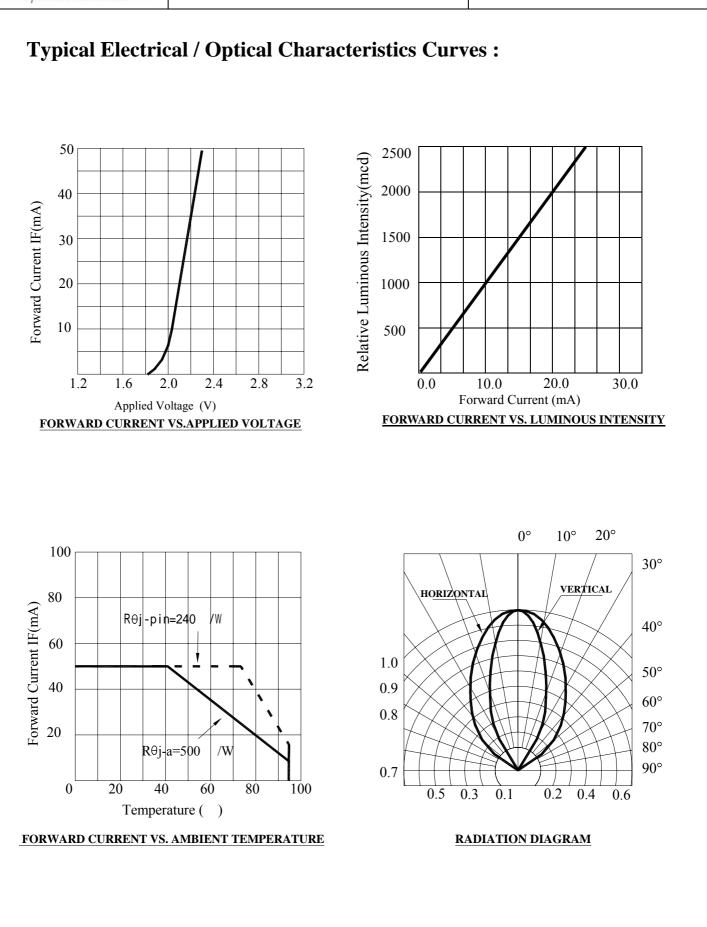
*Majority VF bins are highlighted in Yellow.

Specifications for Wavelength Group:

d(nm)		
Group	MIN.	MAX.
X2	584	587
X3	587	590
X4	590	593



"'O V7692F - WY''''' 5.2×4.6mm OVAL LED LAMP





Precautions:

TAKE NOTE OF THE FOLLOWING IN USE OF LED

1. Temperature in use

Since the light generated inside the LED needs to be emitted to outside efficiently, a resin with high light transparency is used; therefore, additives to improve the heat resistance or moisture resistance (silica gel, etc) which are used for semiconductor products such as transistors cannot be added to the resin.

Consequently, the heat resistant ability of the resin used for LED is usually low; therefore, please be careful on the following during use.

Avoid applying external force, stress, and excessive vibration to the resins and terminals at high temperature. The glass transition temperature of epoxy resin used for the LED is approximately 120-130 .

At a temperature exceeding this limit, the coefficient of liner expansion of the resin doubles or more compared to that at normal temperature and the resin is softened.

If external force or stress is applied at that time, it may cause a wire rupture.

2. Soldering

Please be careful on the following at soldering.

After soldering, avoided applying external force, stress, and excessive vibration until the products go to cooling process (normal temperature), <Same for products with terminal leads>

(1) Soldering measurements:

Distance between melted solder side to bottom of resin shall be 1.6mm or longer.

(2) Dip soldering :

Pre-heat: 90 max. (Backside of PCB), Within 60 seconds.

Solder bath: 260±5 (Solder temperature), Within 5 seconds.

- (3) Hand soldering: 350 max. (Temperature of soldering iron tip), Within 3 seconds.
- 3. Insertion

Pitch of the LED leads and pitch of mounting holes need to be same.

4. Others

Since the heat resistant ability of the LED resin is low, SMD components are used on the same PCB, please mount the LED after adhesive baking process for SMD components. In case adhesive baking is done after LED lamp insertion due to a production process reason, make sure not to apply external force, stress, and excessive vibration to the LED and follow the conditions below.

Baking temperature: 120 max. Baking time: Within 60 seconds.

If soldering is done sequentially after the adhesive baking, please perform the soldering after cooling down the LED to normal temperature.