

Peak Emission Wavelength: 400-410nm

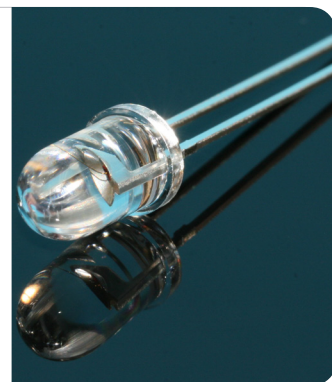
The MT5400-UV-HP is a UV T 1 3/4, 5mm water clear LED designed for applications requiring high power and high reliability packaged with straight leads.

FEATURES

- > High Power Output
- > High Reliability
- > High Speed
- > Narrow Beam Angle

APPLICATIONS

- > Currency Validation
- > Driver License & Passport Identification
- > Medical & Analytical Instruments
- > Fluorescence



Absolute Maximum Ratings (Ta=25°C)

ITEMS	SYMBOL	RATINGS	UNIT
Forward Current	IF	25	mA
Peak Forward Current*1	IFP	100	mA
Reverse Current	IR	85	mA
Power Dissipation	PD	100	mW
Operating Temperature Range	Topr	-30 ~ +80	°C
Storage Temperature Range	Tstg	-30 ~ +85	°C
Lead Soldering Temperature*2	Tls	260	°C

*1: Test Conditions: D.C.<1/10, p. width<0.1msec. *2: Time 5 Sec max, Position: Up to 3mm from the body.

Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	VF	IF=20mA	3.0	3.2	4.2	V
Radiant Power	Φe	IF=20mA	21	--	29.4	mW
Peak Emission Wavelength	λp	IF=20mA	400	--	410	nm
Viewing Angle	Θ	IF=20mA	--	40	--	deg.
Spectral Bandwidth at 50%	Δλ _{0.5}	IF=20mA	--	15	--	nm

RADIATION

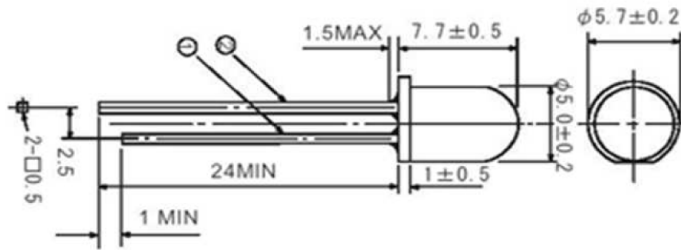
Ultra Violet

TYPE

Resin Mold Packaged

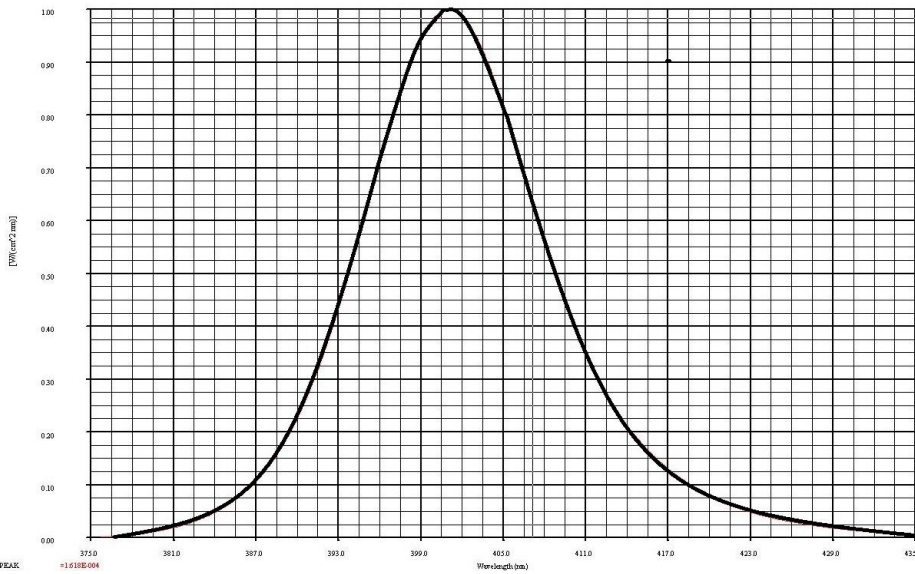
CASE

5mm Plastic Lens



Unit: mm

Spectral Response



CAUTION

1. LEDs emit very strong UV radiation during operation.
2. Don't look directly into the LED light when in operation as UV radiation can harm your eyes.
3. To prevent even inadequate exposure, wear protective eyewear.
4. If LEDs are embedded in devices, please indicate warning labels against the UV LED used.
5. Avoid prolonged exposure to skin or other tissue during operation.
6. Keep out of reach of children.
7. Take appropriate precautions around pets and other living organisms to avoid UV exposure.
8. Specification and dimension are subject to change without notice.