

Ultra Violet LED

Product No: MTE3950N1-UV

Peak Emission Wavelength: 395nm

The MTE3950N1-UV is a 5mm water clear LED designed for applications requiring high brightness and high reliability packaged with straight leads.

FEATURES

- > High Brightness
- > High Reliability
- > Water Clear with Flange
- > Housing without Standoff Leads

APPLICATIONS

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



Absolute Maximum Ratings (Ta=25°C)						
ITEMS	SYMBOL	RATINGS	UNIT			
Forward Current	IF	40	mA			
Peak Forward Current*1	IFP	100	mA			
Power Dissipation	PD	120	mW			
Operating Temperature Range	Topr	-40 ~ +85	°C			
Storage Temperature Range	Tstg	-40 ~ +100	°C			
Lead Soldering Temperature*2	Tls	260	°C			

*1: Test Conditions: 1/10 duty cycle @ 1KHz. *2: Time 5 Sec max, Position: Up to 3mm from the body.

Electrical & Optical Characteristics (Ta = 25°C)

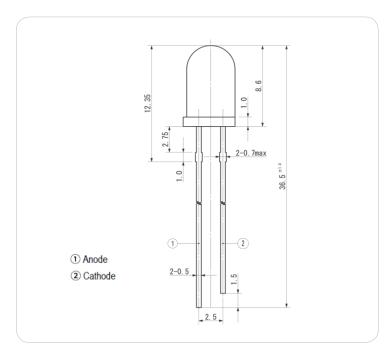
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	Po	IF=20mA		15.0		mW
Forward Voltage	VF	IF=20mA		3.1		V
Reverse Voltage	VR	IR=2µA		8.0		V
Peak Emission Wavelength	λρ	IF=20mA		395		nm
Viewing Angle	Θ	IF=20mA		14		deg.
Spectral Bandwidth at 50%	$\Delta\lambda_{0.5}$	IF=20mA		12		nm

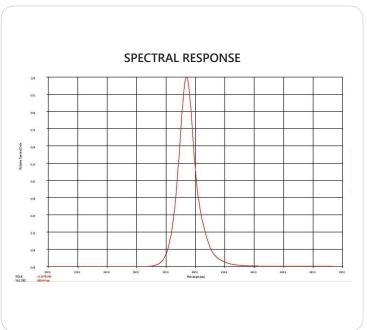
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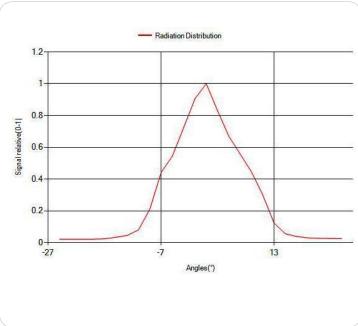


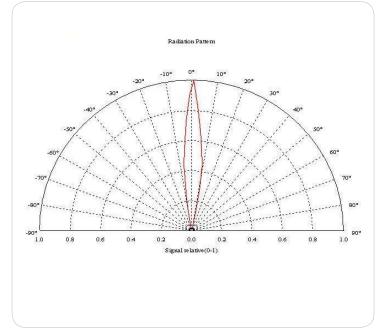








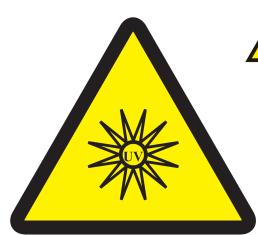








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W CATOHHON

- 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.

The information contained herein is subject to change without notice.