

# Preliminary Ultra Violet LED

Product No: MTE3950N2-UV

### Peak Emission Wavelength: 395nm

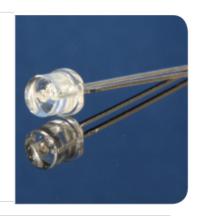
The MTE3950N2-UV is a ultraviolet 5mm water clear LED designed for applications requiring high brightness and high reliability.

#### **FEATURES**

- > High Brightness
- > High Reliability
- > Water Clear with Flange
- > Wide 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	40	mA		
Forward Current (Pulse)*1	IFP	100	mA		
Reverse Voltage	VR	8	V		
Power Dissipation	PD	120	mW		
Operating Temperature Range	Topr	-20 ~ +80	°C		
Storage Temperature Range	Tstg	-30 ~ +100	°C		
Lead Soldering Temperature*2	Tls	260	°C		

\*1: Tw=10uS, T=10mS \*2: Time 5 Sec max, Position: Up to 3mm from the body.

Electrical & Optic	al Characteristics	$(Ta = 25^{\circ}C)$
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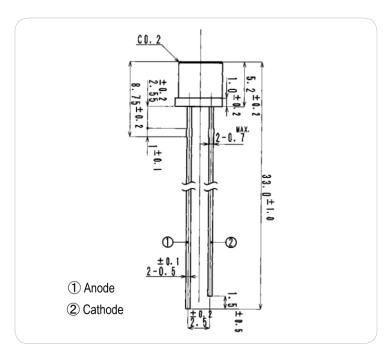
ITEMO	OVMBOL	COMPLETIONS		TVD	MAY	
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	VF	IF=20mA		3.1		V
Power Output	PO	IF=20mA		14.1		mW
Reverse Current	IR	VR=8V		2.0		uA
Peak Emission Wavelength	λρ	IF=20mA		3 <b>9</b> 5		nm
Spectral Bandwidth at 50%	$\Delta\lambda_{0.5}$	IF=20mA		12		nm
Viewing Angle	$\Theta$	IF=20mA		116		deg

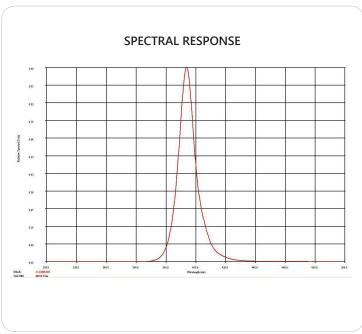
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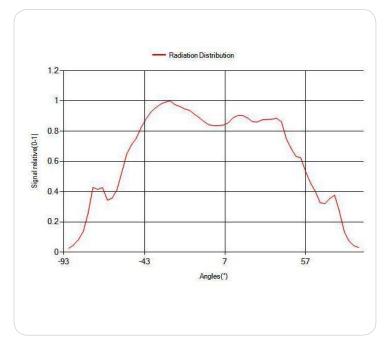


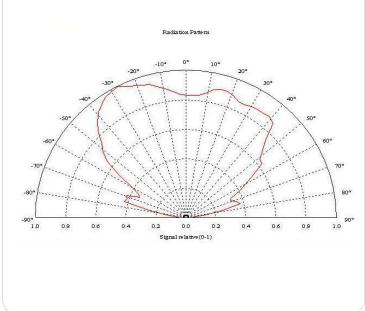








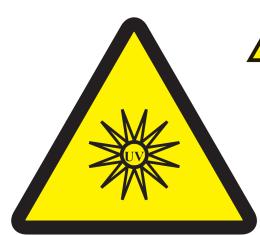








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## W CATOHHON

- 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.