



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Peak Emission Wavelength: 380-390nm

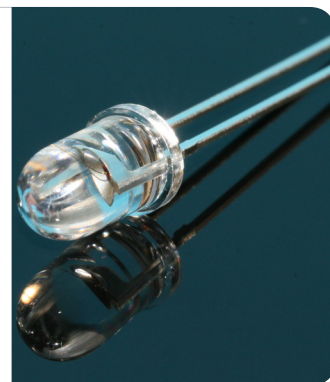
The MT5385-UV is a UV T 1 3/4, 5mm water clear LED designed for applications requiring high brightness and high reliability packaged with straight leads.

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	30	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
Forward Voltage	VF	IF=20mA	--	3.2	3.8	V
Reverse Voltage	VR	IR=10μA	5	--	--	V
Peak Emission Wavelength	λ_p	IF=20mA	380	385	390	nm
Viewing Angle *	θ	IF=20mA	--	30	--	deg.
Spectral Bandwidth at 50%	$\Delta\lambda_{0.5}$	IF=20mA	--	13	--	nm
Dominant Wavelength	λ_D	IF=20mA	--	438	--	nm
Lumious Intensity	IV	IF=20mA	15	23	--	mcd
Power Output	PO	IF=20mA	--	2	--	mW

*1: Tolerance of Viewing Angle:-10/+5deg.

RADIATION

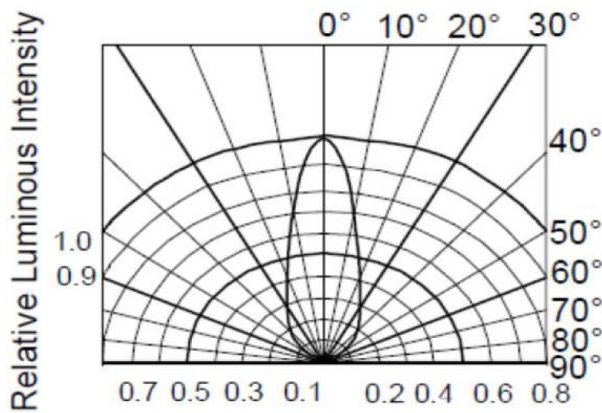
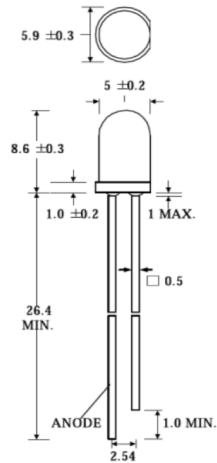
Ultra Violet

TYPE

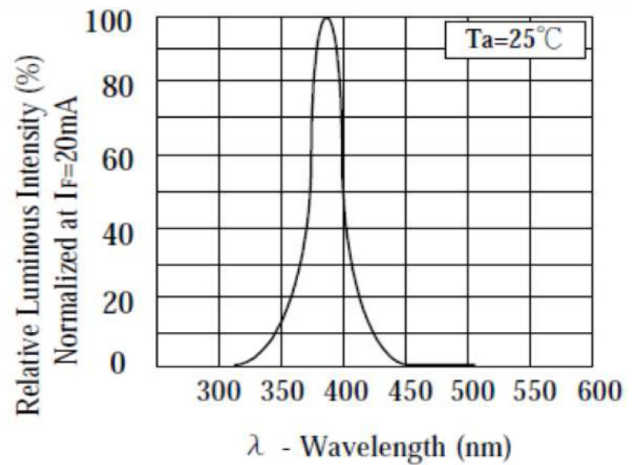
InGaN/SiC

CASE

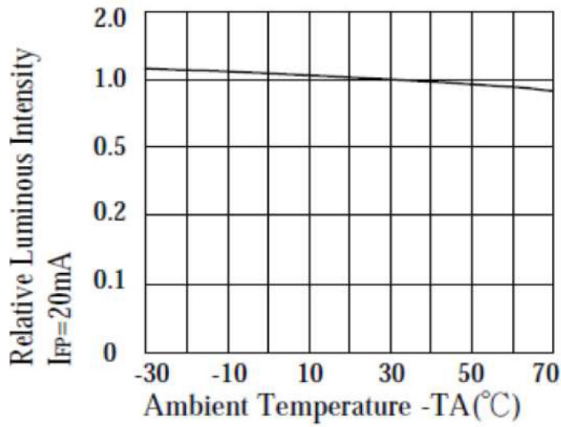
5mm Plastic Lens



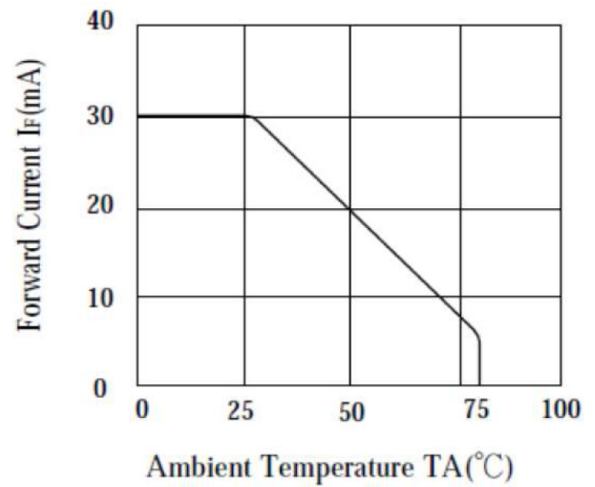
RADIATION DIAGRAM



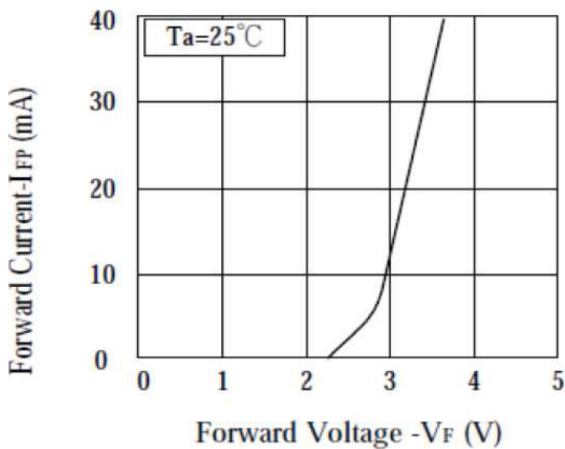
RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH



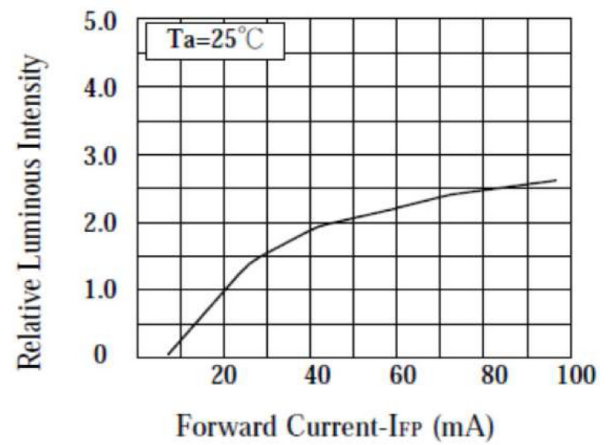
**LUMINOUS INTENSITY
Vs. AMBIENT TEMPERATURE**



**MAX FORWARD CURRENT
Vs. AMBIENT TEMPERATURE**



**FORWARD CURRENT
Vs. FORWARD VOLTAGE**



**LUMINOUS INTENSITY
Vs. FORWARD CURRENT**



 **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.