	LTR	REVISION	DATE	APPD
Е		011706-RM04:ADD RADIANT INTENSITY	01-18-06	RM

Features:

Chip material: InGaN / SiC
 Emitted color : Ultraviolet

3. Lens Appearance: Water Clear

4. Low power consumption.

5. High efficiency.

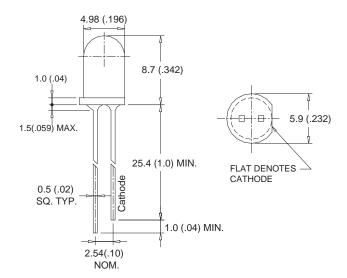
6. Versatile mounting on P.C. board or panel.

7. Low current requirement.

8. 5mm diameter package

9. This product doesn't contain restricted substances, complies with ROHS standards.

Package dimensions:



Applications:

- 1. TV sets
- 2. Monitor
- 3 Telephones
- 4. Computer
- 5. Circuit board

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is \pm 0.25mm (0.01") unless otherwise specified.
- Lead spacing is measured where the leads emerge from the package
- 4. Specifications are subject to change without notice.



!\CAUTION

- This UV LED during operation radiates intense UV light.
 Do not look directly into the LIV light during operation of
- Do not look directly into the UV light during operation of device. This can be harmful to the eyes even for brief period due to the intense UV light.
- If viewing the UV light is necessary, please use UV filtered glasses to avoid damage by the UV light.
- filtered glasses to avoid damage by the UV light.

 If the UV LED in your product might be viewed directly, please affix a caution label to your product to that effect.

Avoid direct eye exposure to UV light. Keep out of reach of children.

Absolute maximum ratings(Ta=25°C)

Parameter	Symbol	Rating	Unit	
Power Dissipation	Pd	120	mW	
Forward Current	l _F	30	mA	
Peak Forward Current*	I _{FP}	150	mA	
Reverse Voltage	V _R	5	V	
Operating Temperature	Topr	-40°C~80°C	°C	
Storage Temperature	Tstg	-40°C~80°C	°C	
Soldering Temperature	Tsol	260°C (for 5 seconds)	°C	

* Condition for Ifp is pulse of 1/10 duty and 0.1msec width.



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.XXX ± .010 .XX ± .025 ANGLES ± 0°,30' FRACT. ± 1/32

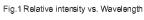
TOLERANCE PER ANSI-Y14.5 (UNLESS OTHERWISE STATED)

	TITLE	L	200C	UV	/40	5-1	2D	
	DWG NO	SCALE		SHEET DATE			DATE	
DSDC0274		NTS		1	OF 2	2	09-26-01	
	CODE IDENT NO. 8Z410	D	CHK BY PL 01-23-06	QA 01-23	SZ -06	MFG		CUSTOMER

Electrical and optical characteristics(Ta=25°C)

Parameter	Symbol	Condition	Min.	Тур	Max.	Unit
Forward Voltage	V	I _F =20mA	-	3.5	4.0	V
Luminous Intensity	lv	I _F =20mA	-	55	-	mcd
Radiant intensity		I _F =20mA	-	48000	-	uW/sr
Reverse Current	I _R	V _R =5V	-	-	100	uA
Peak Wavelength	λр	I _F =20mA	-	405	-	nm
Dominant Wavelength	λd	I _F =20mA	400	-	410	nm
Chromoticity Coordinates	Х	I _F =20mA	-	0.171	-	
Chromaticity Coordinates	Υ	I _F =20mA	•	0.006	•	
Spectral Line Half-width	Δλ	I _F =20mA	-	26	-	nm
Viewing Angle	2θ _{1/2}	I _F =20mA	-	15	-	deg

Typical electro-optical characteristics curves



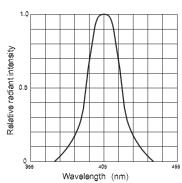


Fig.3 Forward current vs. Forward voltage

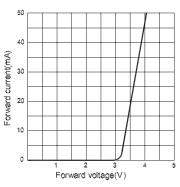


Fig.5 Relative luminous intensity vs. Forward current

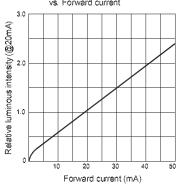


Fig.2 Forward current derating curve vs. Ambient temperature

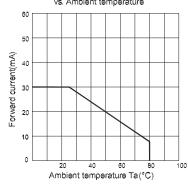


Fig.4 Relative luminous intensity vs. Ambient temperature

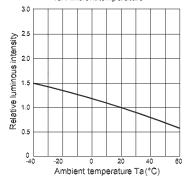
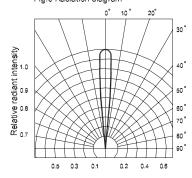


Fig.6 Radiation diagram





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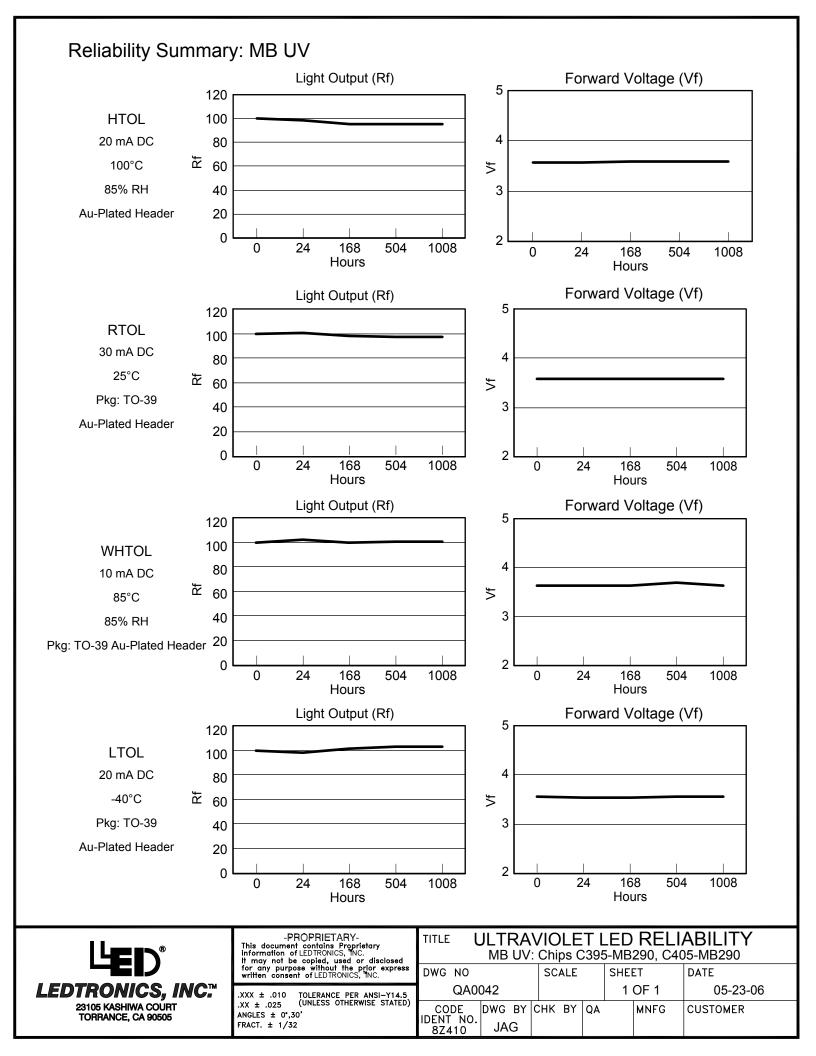
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.XX ± .025				
.XXX ± .010 .XX ± .025 ANGLES ± 0°,30' FRACT. ± 1/32				
FRACT, ± 1/32				

TOLERANCE PER ANSI-Y14.5 (UNLESS OTHERWISE STATED)

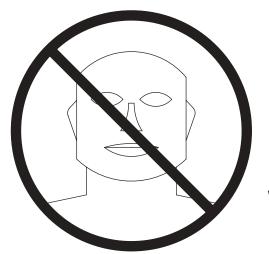
TITLE L200CUV405-12D SPECTRAL CURVES

DWG NO	SCALE		SHEET		DATE	
DSDC0274-A		1:1	1:1 2 OF 2		OF 2	10-06-05
CODE IDENT NO.	DWG BY	CHK BY	QA		MNFG	CUSTOMER
8Z410	RM					



LTR	REVISION	DATE	APPD
-	RELEASED	03-10-00	JCH

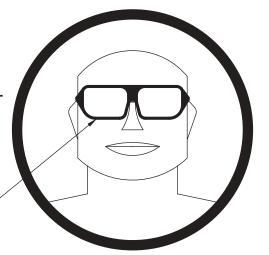
ULTRAVIOLET LIGHT SAFETY PROCEDURE

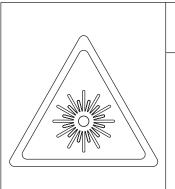


INSPECTORS AND OTHER PERSONS VIEWING

ULTRAVIOLET LIGHT MUST WEAR PROPER PROTECTIVE **EYEWEAR**

WILLSON UV GLASSES PART # F117501





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- If the UV LED in your product might be viewed directly, please affix a caution label to your product to that effect.

Avoid direct eye exposure to UV light. Keep out of reach of children.

NORMAL SUNGLASSES WILL NOT PROTECT YOU FROM UV LIGHT DAMAGE.

YOU MUST USE THE APPROVED UV **GLASSES**

ONLY THOSE PERSONS WHO HAVE COMPLETED UV TESTING CERTIFICATION ARE TO VIEW THIS PRODUCT

THE SAFETY OF ALL EMPLOYEES IS THE UTMOST CONCERN OF **LEDTRONICS**



23105 KASHIWA COURT TORRANCE, CA 90505

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TOLERANCE PER ANSI-Y14.5 (UNLESS OTHERWISE STATED)

UV LIGHT TESTING INSTRUCTIONS

							.00110110
	DWG NO	SCALE	SHEET		ĒΤ	DATE	
	QA0028		NTS	NTS 1 OF 1		OF 1	03-10-00
	CODE DWG BY CODE IDENT NO. 8Z410 JCH		CHK BY	QA C 08-09	G	MFG RA 12-01-00	CUSTOMER