| | LTR | REVISION | DATE | APPD |
|--------|-----|-----------------------------------|----------|------|
| E 0117 | | 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.

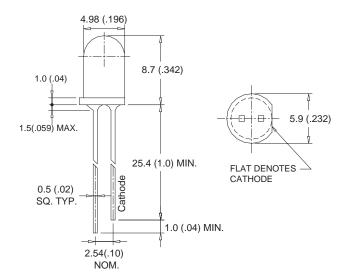
6. Versatile mounting on P.C. board or panel.

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

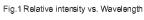
TOLERANCE PER ANSI-Y14.5 (UNLESS OTHERWISE STATED)

| | 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 | Y I _F =20mA - 0.006 | 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



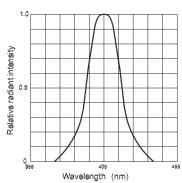


Fig.3 Forward current vs. Forward voltage

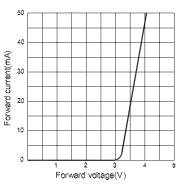


Fig.5 Relative luminous intensity vs. Forward current

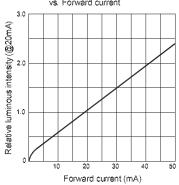


Fig.2 Forward current derating curve vs. Ambient temperature

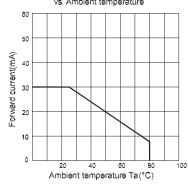


Fig.4 Relative luminous intensity vs. Ambient temperature

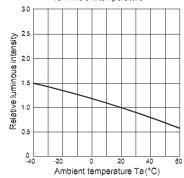
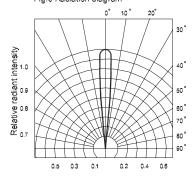


Fig.6 Radiation diagram





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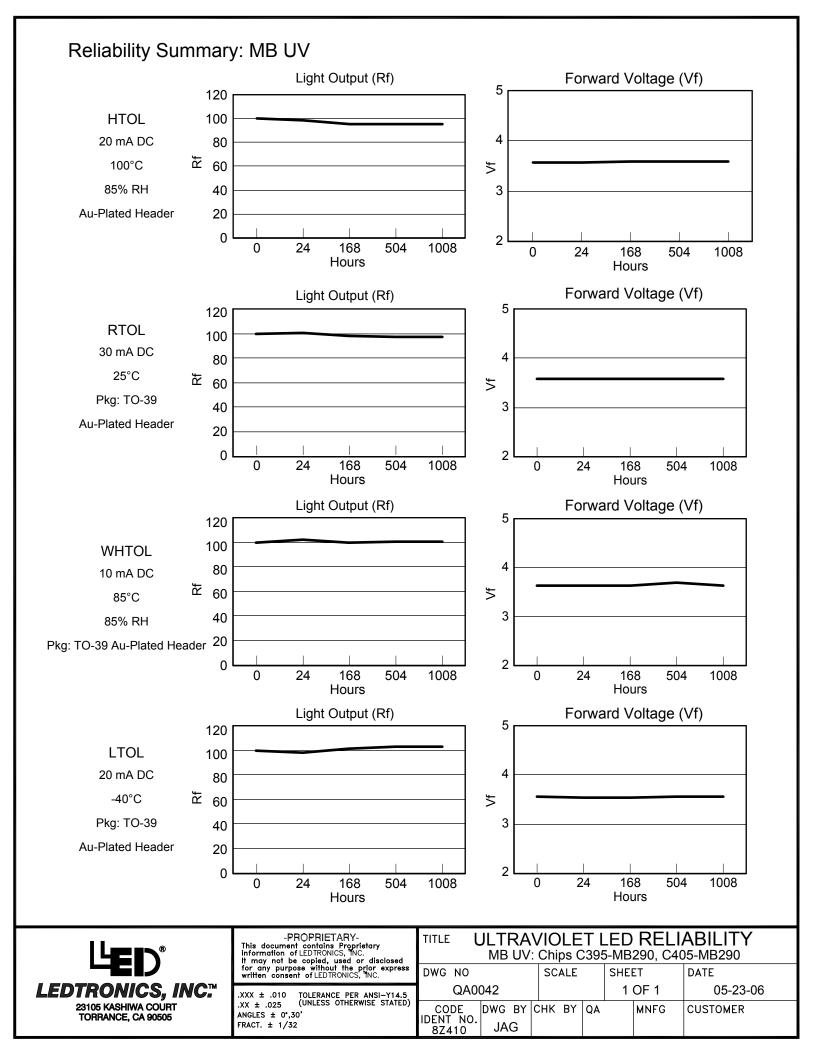
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| .XXX ± .010 | | | | |
|---|--|--|--|--|
| .XX ± .025 | | | | |
| .XXX ± .010 .XX ± .025 ANGLES ± 0°,30' FRACT. ± 1/32 | | | | |
| FRACT, ± 1/32 | | | | |

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

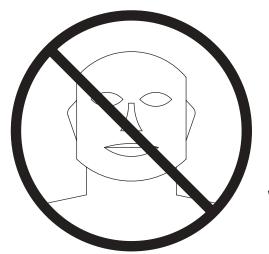
TITLE L200CUV405-12D SPECTRAL CURVES

| 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 |

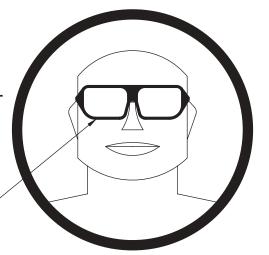
ULTRAVIOLET LIGHT SAFETY PROCEDURE

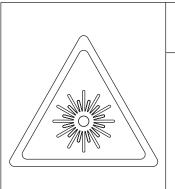


INSPECTORS AND OTHER PERSONS VIEWING

ULTRAVIOLET LIGHT MUST WEAR PROPER PROTECTIVE **EYEWEAR**

WILLSON UV GLASSES PART # F117501





CAUTION

- · This UV LED during operation radiates intense UV light.
- · 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.
- 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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XXX + .010 .XX ± .025 ANGLES ± 0°,30' FRACT. ± 1/32

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

UV LIGHT TESTING INSTRUCTIONS

| 012011112011110111101111 | | | | | | | .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 |