

FEATURES

- * RECTANGULAR LIGHT BAR
- * LARGE, BRIGHT, UNIFORM LIGHT EMITTING AREAS
- * LOW POWER REQUIREMENT
- * HIGH BRIGHTNESS & HIGH CONTRAST
- * SOLID STATE RELIABILITY
- * CATEGORIZED FOR LUMINOUS INTENSITY

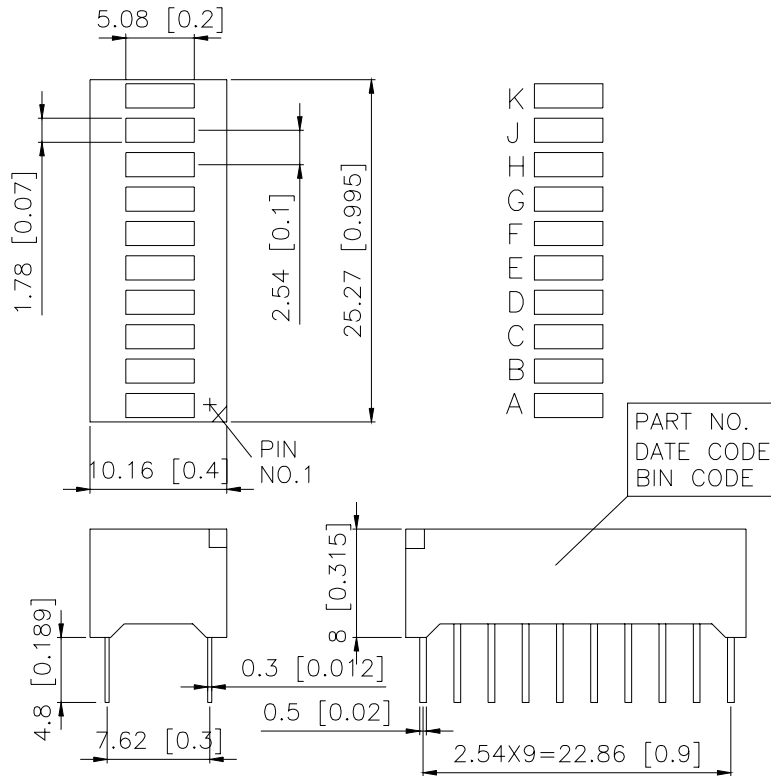
DESCRIPTION

The LTA-1000Y-09 is a ten rectangular light sources array display designed for a variety of applications where a continuously large, bright source of light is required. This device uses yellow LED chips,(GaAsP epi on GaAs substrate). The display has black face and white segments.

DEVICE

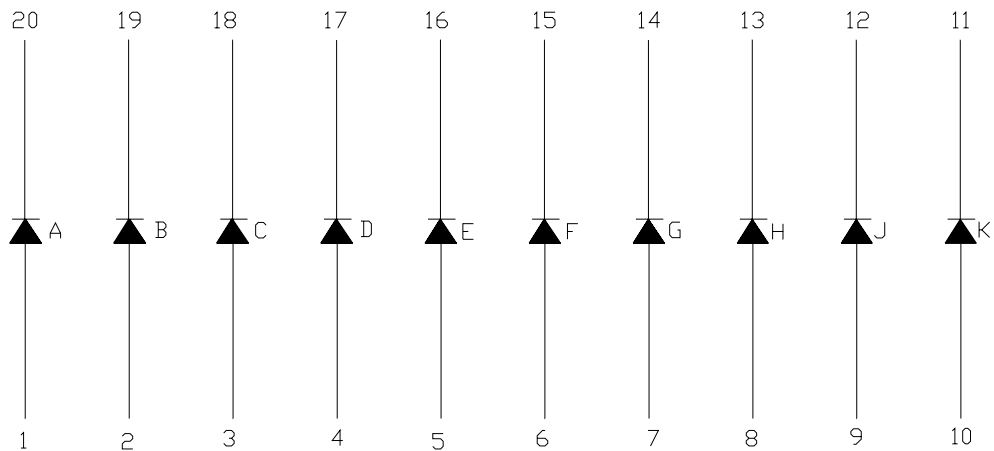
| PART NO. | DESCRIPTION |
|-----------------|---------------------|
| Yellow | Universal |
| LTA-1000Y-09 | Ten Rectangular Bar |

PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters. Tolerances are ± 0.25 mm (0.01") unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

| No. | CONNECTION |
|------------|-------------------|
| 1 | ANODE A |
| 2 | ANODE B |
| 3 | ANODE C |
| 4 | ANODE D |
| 5 | ANODE E |
| 6 | ANODE F |
| 7 | ANODE G |
| 8 | ANODE H |
| 9 | ANODE J |
| 10 | ANODE K |
| 11 | CATHODE K |
| 12 | CATHODE J |
| 13 | CATHODE H |
| 14 | CATHODE G |
| 15 | CATHODE F |
| 16 | CATHODE E |
| 17 | CATHODE D |
| 18 | CATHODE C |
| 19 | CATHODE B |
| 20 | CATHODE A |

ABSOLUTE MAXIMUM RATING

| PARAMETER | MAXIMUM RATING | UNIT |
|--|-----------------------|-------------|
| Power Dissipation Per Segment | 60 | mW |
| Peak Forward Current Per Segment (Frequency 1Khz, 10% duty cycle) | 80* | mA |
| Continuous Forward Current Per Segment | 20 | mA |
| Forward Current Derating from 25 ⁰ C | 0.27 | mA/ |
| Reverse Voltage Per Segment | 5 | V |
| Operating Temperature Range | -35 to +85 | |
| Storage Temperature Range | -35 to +85 | |
| Soldering Conditions : 1/16 inch below seating plane for 3 seconds at 260 ⁰ C | | |

* see figure 5 to establish pulsed condition

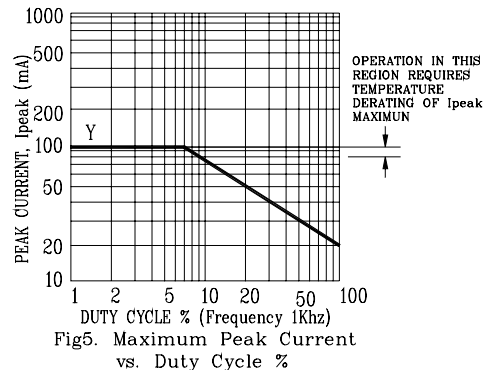
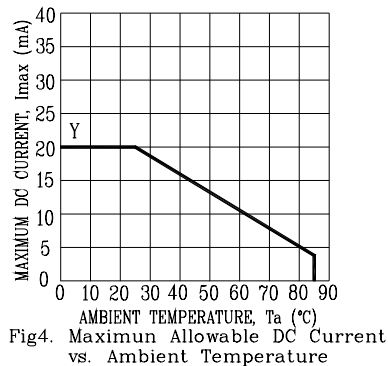
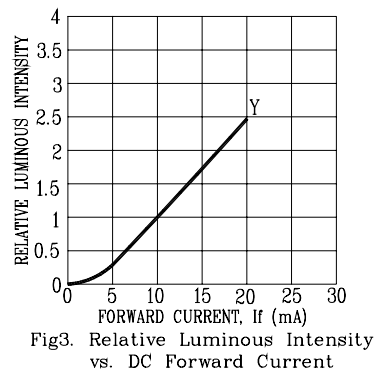
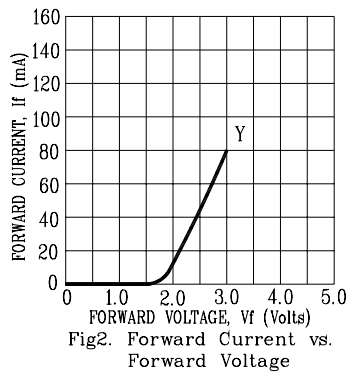
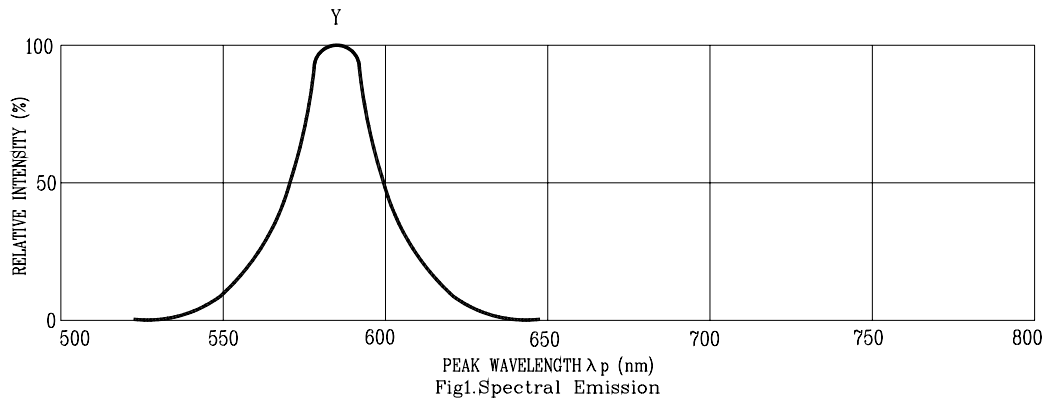
ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST CONDITION |
|-----------------------------------|-------------------|-------------|-------------|-------------|-------------|-----------------------|
| Average Luminous Intensity | I _v | 540 | 2000 | | μcd | I _F =10mA |
| Peak Emission Wavelength | λ _p | | 585 | | nm | I _F =20mA |
| Spectral Line Half-Width | Δλ | | 35 | | nm | I _F =20mA |
| Dominant Wavelength | λ _d | | 588 | | nm | I _F =20mA |
| Forward Voltage Per Segment | V _F | | 2.1 | 2.6 | V | I _F =20mA |
| Reverse Current Per Segment | I _R | | | 100 | μA | V _R =5V |
| Luminous Intensity Matching Ratio | I _v -m | | | 2:1 | | I _F =10mA |

Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE : Y= YELLOW