

## TOSHIBA LED DISPLAY

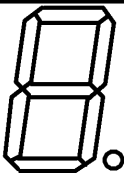
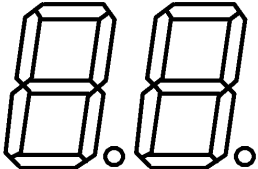
**TLG362T, TLG363T, TLG366T, TLG367T**  
**TLS362T, TLS363T, TLS366T, TLS367T**  
**TLR362T, TLR363T, TLR366T, TLR367T**

- 14.2mm (0.56") Character Height Numerical Display.
- Application : Numerical Readout for Instrument and Consumer Product.
- Luminous Intensity Ranking Performed Uniform Display.
- Available Both Types of Package Colors.  
 TL□xxxS : Gray Color Coated Only on Surface.  
 TL□xxxT : Black Color Coated Only on Surface.

## PRODUCT LINE UP

|                                       |           |
|---------------------------------------|-----------|
| TLG362T / TLG363T / TLG366T / TLG367T | GaP GREEN |
| TLS362T / TLS363T / TLS366T / TLS367T | GaAsP RED |
| TLR362T / TLR363T / TLR366T / TLR367T | GaP RED   |

## TYPE No. vs FULLY DISPLAY

| COMMON CATHODE                | COMMON ANODE                  | FULLY DISPLAY FONT                                                                   |
|-------------------------------|-------------------------------|--------------------------------------------------------------------------------------|
| TLG362T<br>TLS362T<br>TLR362T | TLG363T<br>TLS363T<br>TLR363T |   |
| TLG366T<br>TLS366T<br>TLR366T | TLG367T<br>TLS367T<br>TLR367T |  |

## MAXIMUM RATINGS (Ta = 25°C)

| CHARACTERISTIC                      | SYMBOL                    | RATING | UNIT |
|-------------------------------------|---------------------------|--------|------|
| DC Forward Current / seg.           | I <sub>F</sub> (DC) / seg | 20     | mA   |
| Pulse Forward Current / seg. (Note) | I <sub>FP</sub> / seg     | 110    | mA   |
| Reverse Voltage / seg.              | V <sub>R</sub>            | 6      | V    |
| Operating Temperature Range         | T <sub>opr</sub>          | -40~85 | °C   |
| Storage Temperature Range           | T <sub>stg</sub>          | -40~85 | °C   |

Note : Pulse Width = 1ms, Duty Ratio = 1 / 10

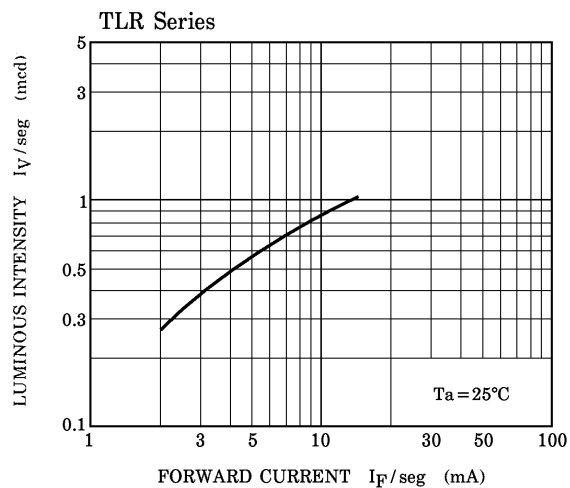
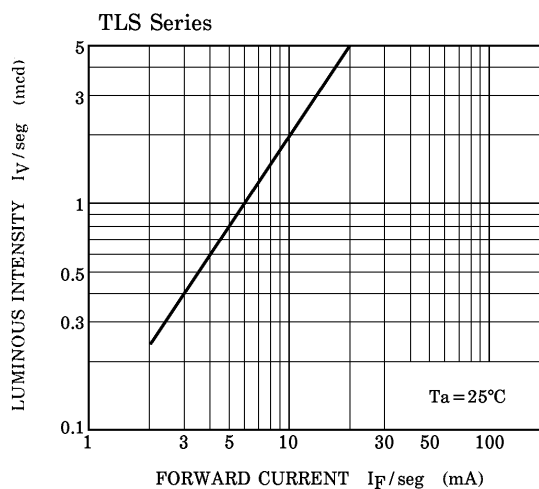
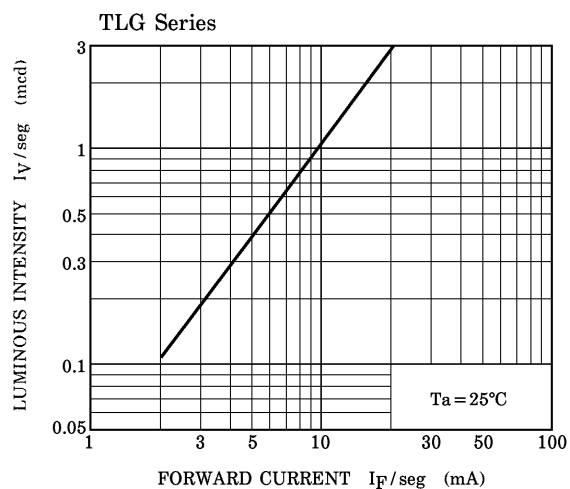
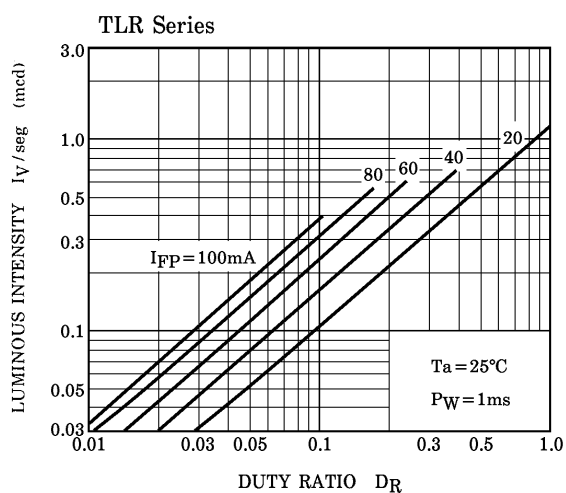
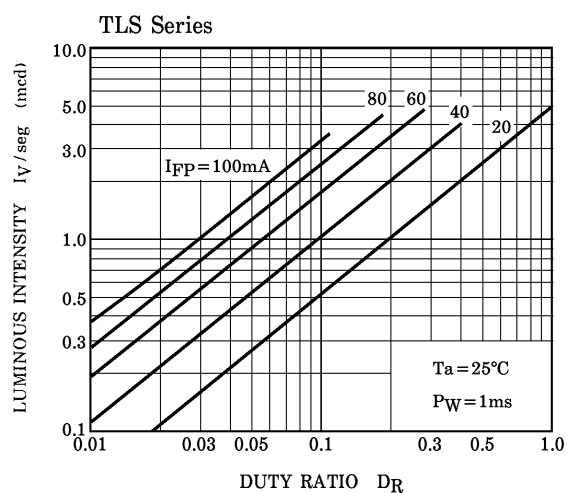
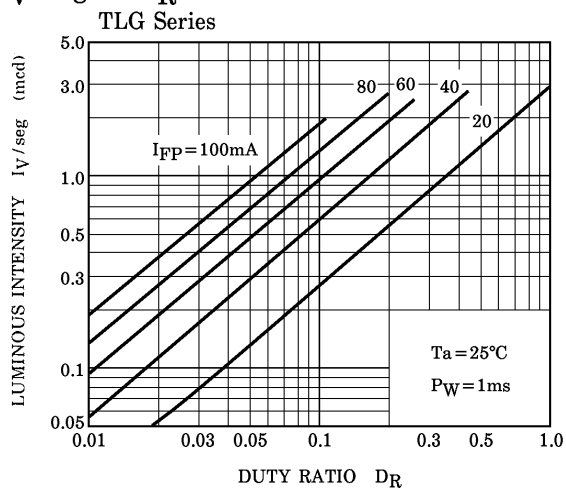
**ELECTRICAL-OPTICAL CHARACTERISTICS (Ta = 25°C)**

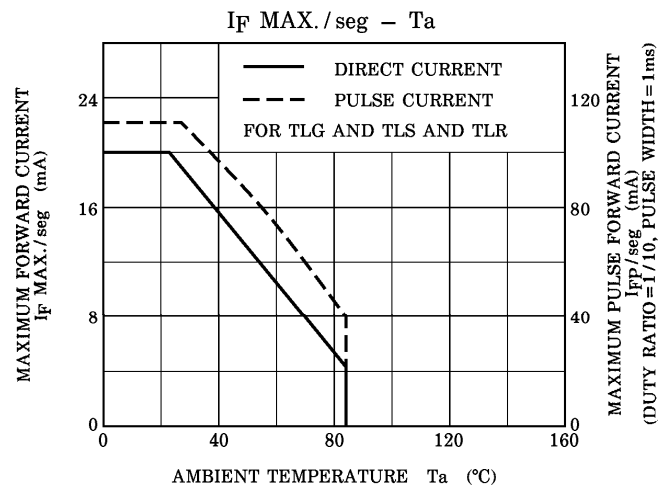
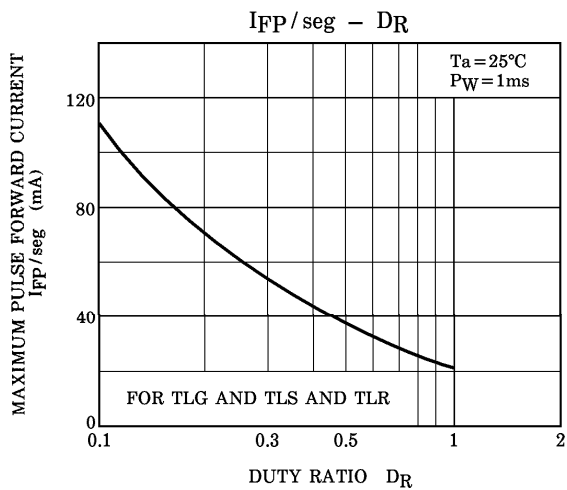
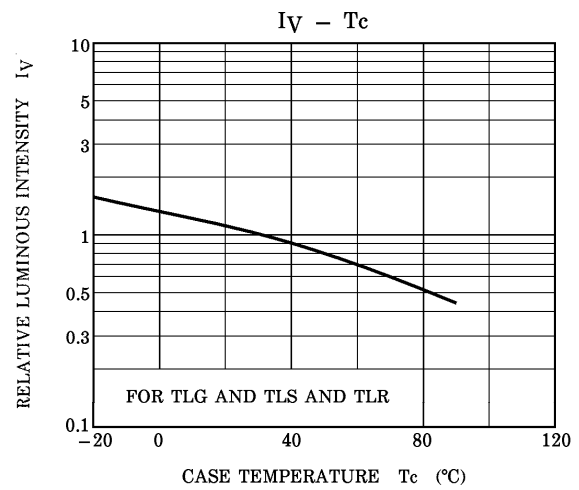
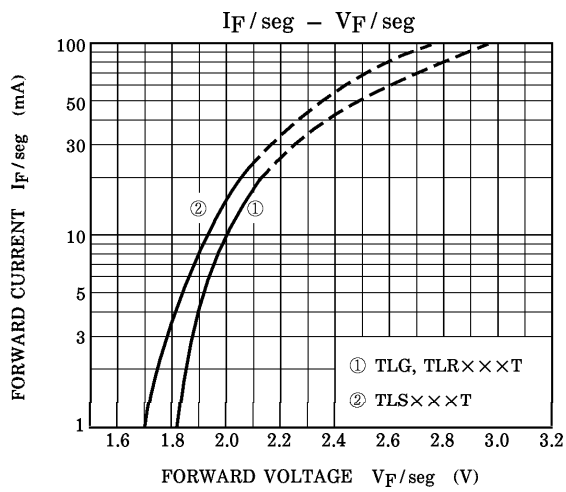
| TYPE No.   | EMITTING<br>WAVE LENGTH |     |                     | LUMINOUS<br>INTENSITY<br>I <sub>V</sub> / seg |      |                     | FORWARD<br>VOLTAGE V <sub>F</sub> / seg |      |      |                     | REVERSE<br>CURRENT<br>I <sub>R</sub> / seg |                     | LUMINOUS<br>INTENSITY<br>MATCHING<br>RATIO I <sub>V-M</sub> |                     |
|------------|-------------------------|-----|---------------------|-----------------------------------------------|------|---------------------|-----------------------------------------|------|------|---------------------|--------------------------------------------|---------------------|-------------------------------------------------------------|---------------------|
|            | λ <sub>p</sub>          | Δλ  | I <sub>F</sub> /seg | Min.                                          | Typ. | I <sub>F</sub> /seg | Min.                                    | Typ. | Max. | I <sub>F</sub> /seg | Max.                                       | V <sub>R</sub> /seg | Max.                                                        | I <sub>F</sub> /seg |
| TLG Series | 565                     | 30  | 10                  | 0.44                                          | 1.00 | 10                  | 1.7                                     | 2.0  | 2.5  | 10                  | 5                                          | 6                   | 2.3                                                         | 10                  |
| TLS Series | 635                     | 40  |                     | 0.83                                          | 2.00 |                     | 1.7                                     | 1.9  | 2.5  |                     |                                            |                     |                                                             |                     |
| TLR Series | 700                     | 100 |                     | 0.21                                          | 0.56 | 5                   | 1.4                                     | 2.0  | 2.5  |                     |                                            |                     |                                                             | 5                   |
| UNIT       | nm                      |     | mA                  | mcd                                           |      | mA                  | V                                       |      |      | mA                  | μA                                         | V                   | —                                                           | mA                  |

**PRECAUTION**

Please be careful of the following.

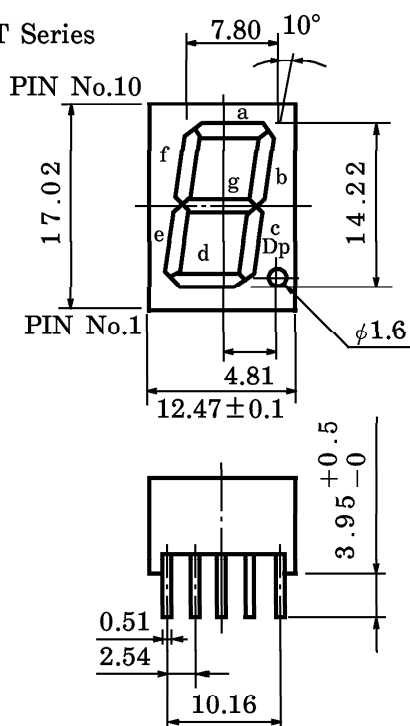
- Soldering temperature should be less than 260°C for 3 seconds at 2.0mm from the seating plane.

**$I_V/\text{seg} - I_F/\text{seg}$**  **$I_V/\text{seg} - D_R$** 



## OUTLINE DIMENSIONS

362T, 363T Series



Unit in mm

Tolerance is  $\pm 0.25$ 

Unless otherwise noted

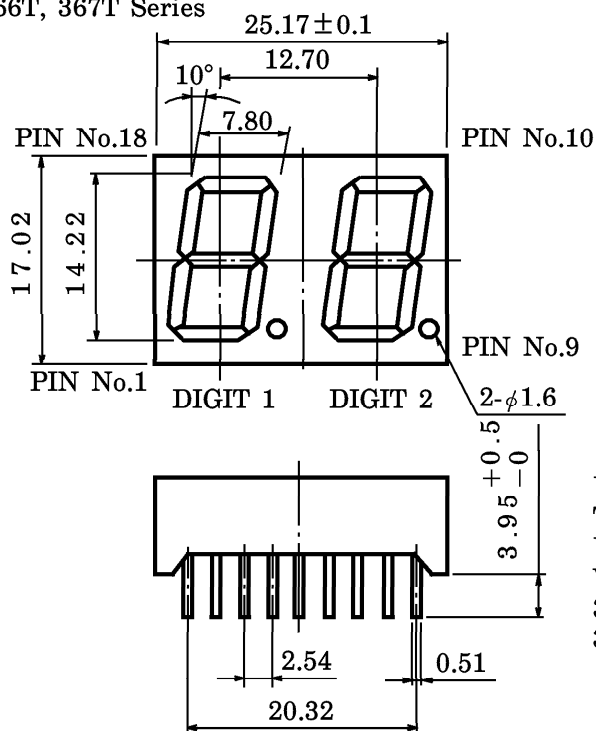
Weight : 1.71g

362T Series : TOSHIBA 4-12B1B

363T Series : TOSHIBA 4-12B1A

## OUTLINE DIMENSIONS

366T, 367T Series



Unit in mm

Tolerance is  $\pm 0.25$ 

Unless otherwise noted

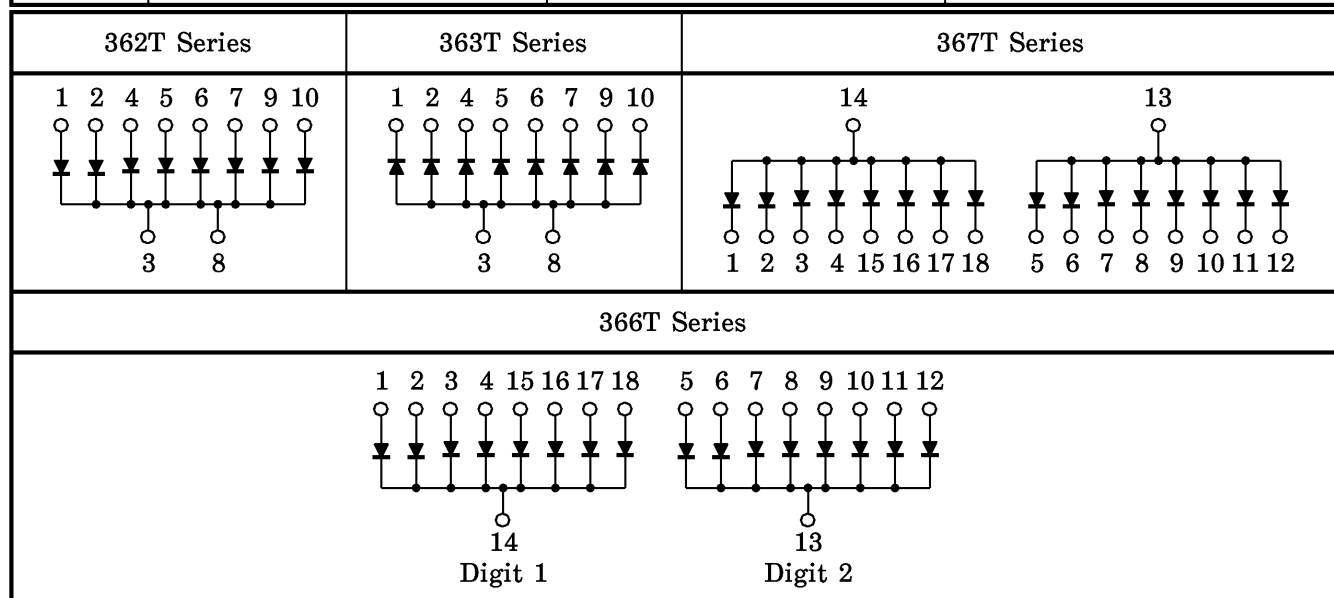
Weight : 3.66g

366T Series : TOSHIBA 4-25C1A

367T Series : TOSHIBA 4-25C1B

**PIN CONNECTION**

| PIN No. | CONNECTION     |              |                   |
|---------|----------------|--------------|-------------------|
|         | 362T Series    | 363T Series  | 366T, 367T Series |
| 1       | e              | e            | E Digit 1         |
| 2       | d              | d            | D Digit 1         |
| 3       | Common Cathode | Common Anode | C Digit 1         |
| 4       | c              | c            | Dp Digit 1        |
| 5       | Dp             | Dp           | E Digit 2         |
| 6       | b              | b            | D Digit 2         |
| 7       | a              | a            | G Digit 2         |
| 8       | Common Cathode | Common Anode | C Digit 2         |
| 9       | f              | f            | Dp Digit 2        |
| 10      | g              | g            | B Digit 2         |
| 11      | —              | —            | A Digit 2         |
| 12      | —              | —            | F Digit 2         |
| 13      | —              | —            | Digit 2 Common    |
| 14      | —              | —            | Digit 1 Common    |
| 15      | —              | —            | B Digit 1         |
| 16      | —              | —            | A Digit 1         |
| 17      | —              | —            | G Digit 1         |
| 18      | —              | —            | F Digit 1         |



**RESTRICTIONS ON PRODUCT USE**

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