

TOSHIBA LED DISPLAY

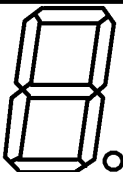
**TLG346T, TLG347T, TLS346T
TLS347T, TLR346T, TLR347T**

- 10mm (0.4") 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

| | |
|-------------------|-----------|
| TLG346T / TLG347T | GaP GREEN |
| TLS346T / TLS347T | GaAsP RED |
| TLR346T / TLR347T | GaP RED |

TYPE No. vs FULLY DISPLAY FONT

| COMMON CATHODE | COMMON ANODE | FULLY DISPLAY FONT |
|-------------------------------|-------------------------------|---|
| TLG346T TLS346T TLR346T | TLG347T TLS347T TLR347T |  |

MAXIMUM RATINGS (Ta = 25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-------------------------------------|---------------------------|--------|------|
| DC Forward Current / seg. | I _F (DC) / seg | 20 | mA |
| Pulse Forward Current / seg. (Note) | I _{FP} / seg | 110 | mA |
| Reverse Voltage / seg. | V _R | 6 | V |
| Operating Temperature Range | T _{opr} | -40~85 | °C |
| Storage Temperature Range | T _{stg} | -40~85 | °C |

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

ELECTRICAL-OPTICAL CHARACTERISTICS (Ta = 25°C)

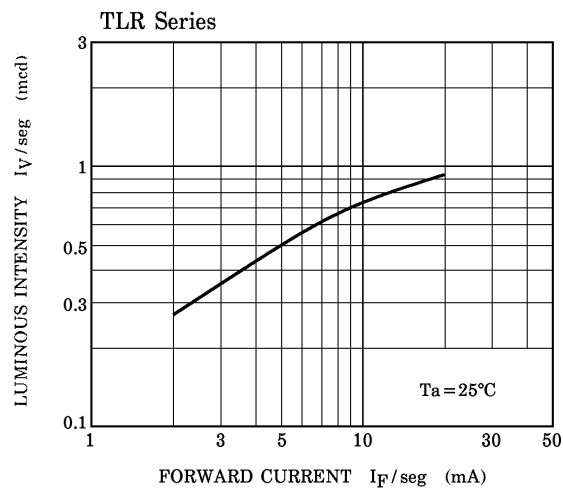
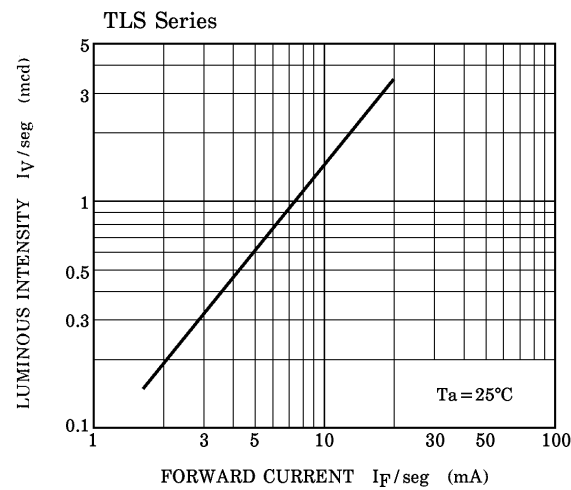
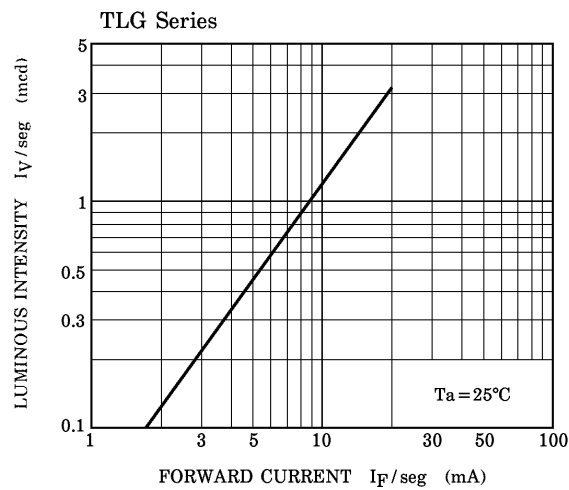
| TYPE No. | EMITTING WAVE LENGTH | | | LUMINOUS INTENSITY I _V / seg | | | FORWARD VOLTAGE V _F / seg | | | | REVERSE CURRENT I _R / seg | | LUMINOUS INTENSITY MATCHING RATIO I _{V-M} | |
|------------|-------------------------|-----------------|---------------------|---|------|---------------------|---|------|------|---------------------|--|---------------------|---|---------------------|
| | λ_p | $\Delta\lambda$ | I _F /seg | Min. | Typ. | I _F /seg | Min. | Typ. | Max. | I _F /seg | Max. | V _R /seg | Max. | I _F /seg |
| TLG Series | 565 | 30 | 10 | 0.54 | 1.22 | 10 | 1.7 | 2.0 | 2.5 | 10 | 5 | 6 | 2.3 | 10 |
| TLS Series | 635 | 40 | | 0.72 | 1.64 | | 1.7 | 1.9 | 2.5 | | | | | |
| TLR Series | 700 | 100 | | 0.23 | 0.52 | 5 | 1.4 | 2.0 | 2.5 | | | | | 5 |
| UNIT | nm | | mA | mcd | | mA | V | | | mA | μ A | V | — | mA |

PRECAUTION

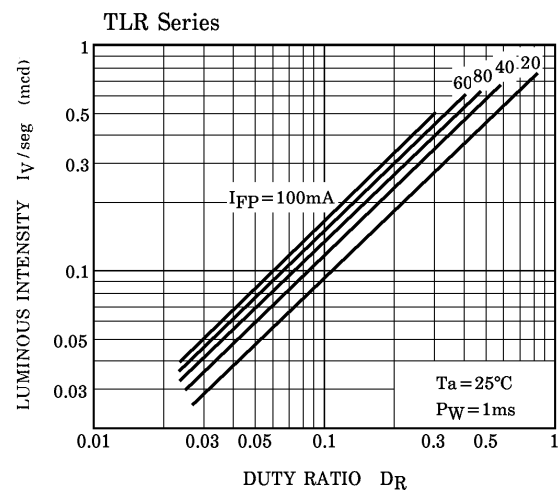
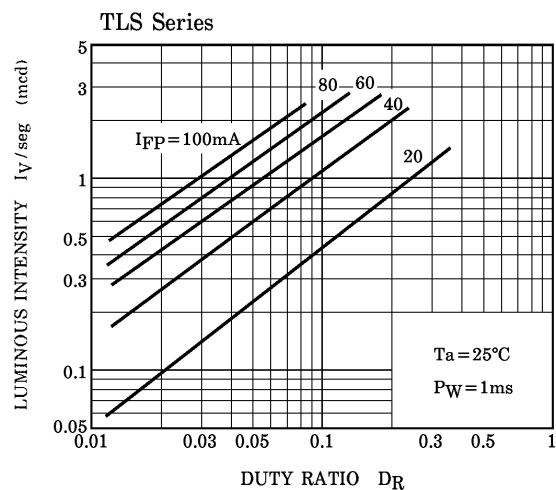
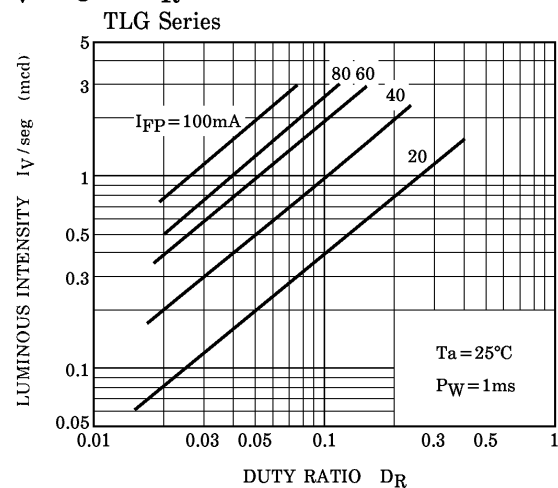
Please be careful of the following.

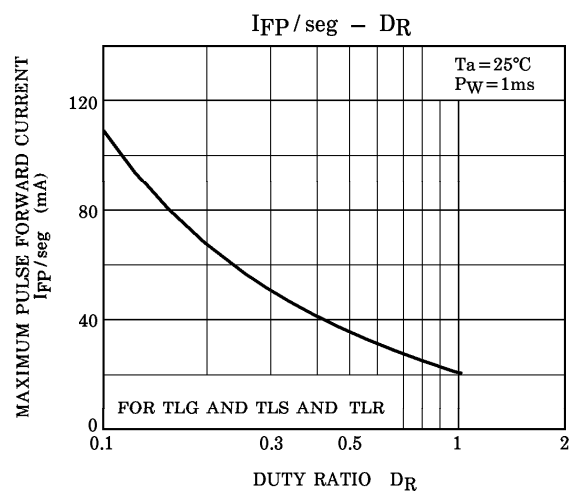
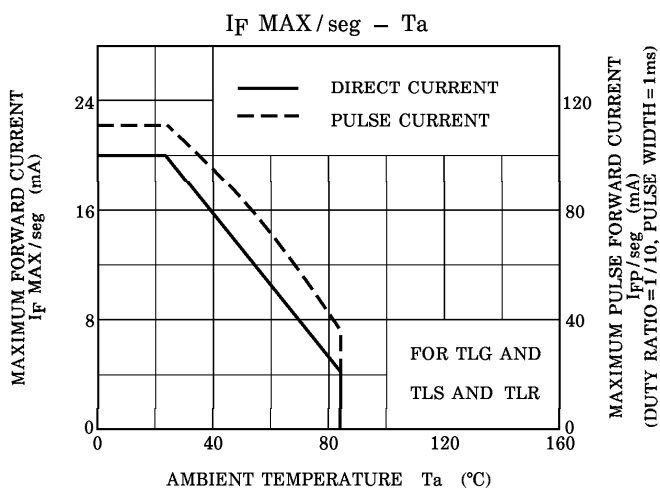
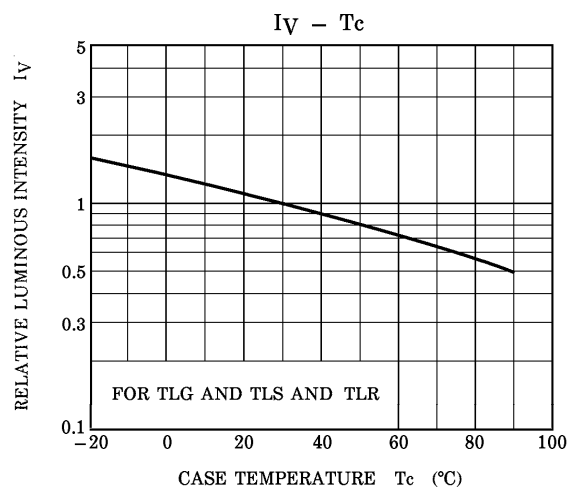
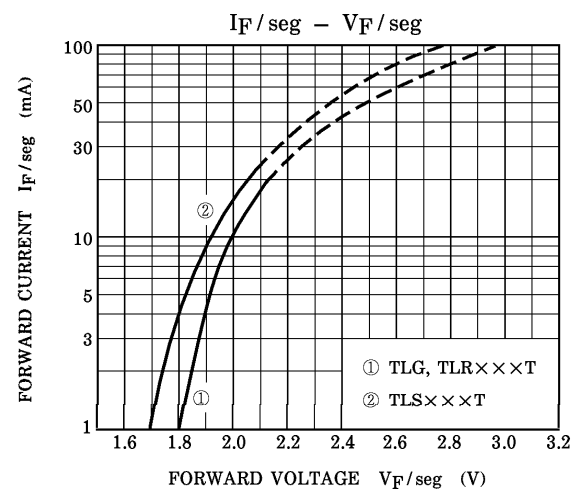
- Soldering temperature should be less than 260°C for 3 seconds at 2.0mm from the seating plane.

$I_V/\text{seg} - I_F$

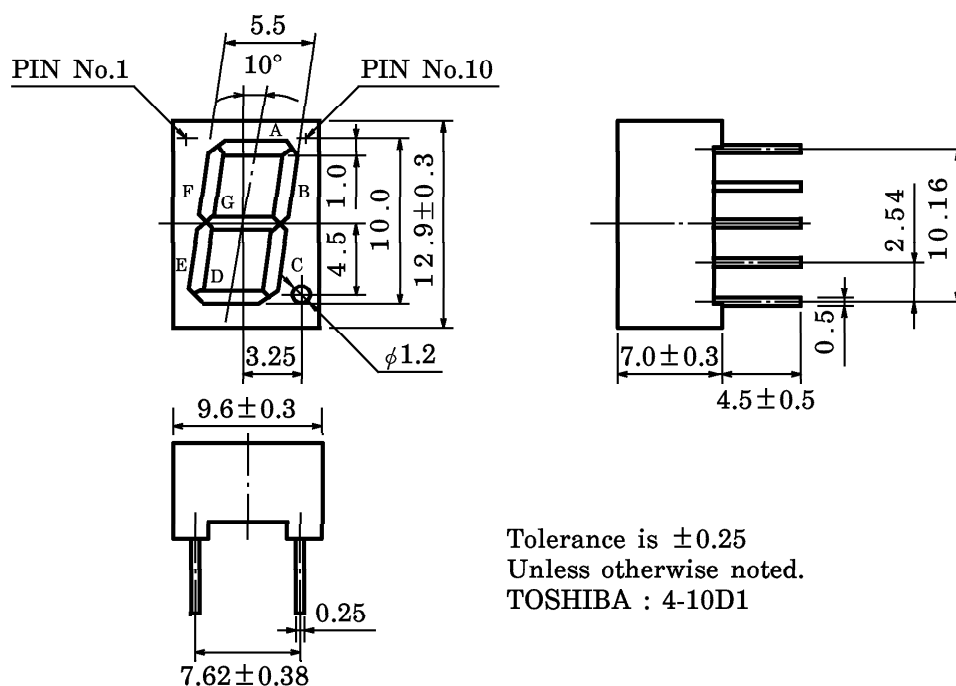


$I_V/\text{seg} - D_R$





OUTLINE DIMENSIONS



Tolerance is ± 0.25
Unless otherwise noted.
TOSHIBA : 4-10D1

PIN CONNECTION

| 346T Series | | 347T Series | |
|-------------|-----------------------|-------------|-------------------------|
| | | | |
| PIN No. | CONNECTION | PIN No. | CONNECTION |
| 1 | Common Cathode | 1 | Common Anode |
| 2 | Anode F | 2 | Cathode F |
| 3 | Anode G | 3 | Cathode G |
| 4 | Anode E | 4 | Cathode E |
| 5 | Anode D | 5 | Cathode D |
| 6 | Common Cathode | 6 | Common Anode |
| 7 | Anode Dp (Right Hand) | 7 | Cathode Dp (Right Hand) |
| 8 | Anode C | 8 | Cathode C |
| 9 | Anode B | 9 | Cathode B |
| 10 | Anode A | 10 | Cathode A |

RESTRICTIONS ON PRODUCT USE

000707EAC

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