

# TLG2098A, TLG4093A TLG2248, TLG4243

## GREEN COLOR 4 DIGITS LED DISPLAY

- For Duplex drive connections and available both polarity common anode or common cathode.
- 15 mm (0.6") character height, each segment represents diffused and uniformly display.
- Outer color filter provides high contrast, practical brightness are obtained at about 20 mA (with 50 per cent duty ratio) per segments.
- Arrow edge shape of each segment represents not mosaic but look like Arabic numerals.
- Selectable both type 12 or 24 hours of display.

## TYPE NO. VS DISPLAYED FONT

COMMON ANODE	COMMON CATHODE	FULLY DISPLAY FONT
TLG2098A	TLG2248	: 10 : 00 .
TLG4093A	TLG4243	: 00 : 00 .

## MAXIMUM RATINGS (Ta = 25 °C)

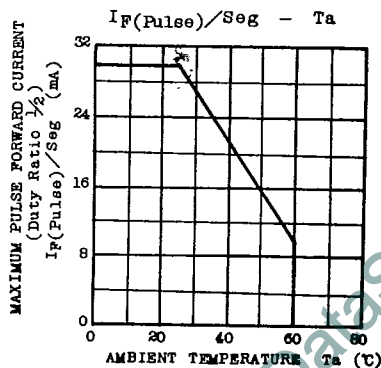
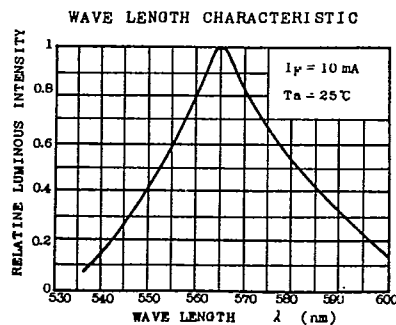
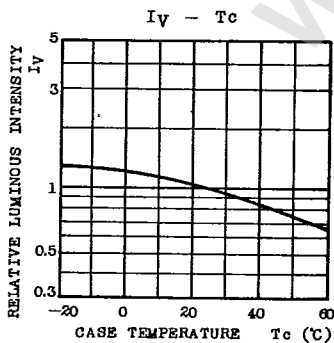
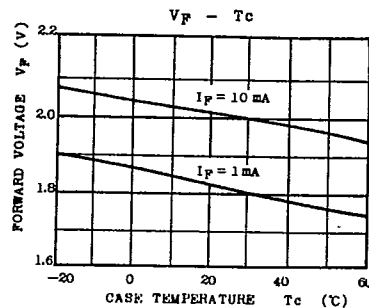
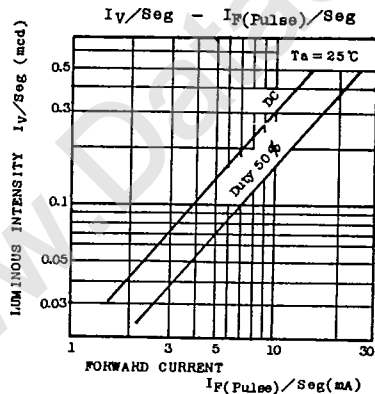
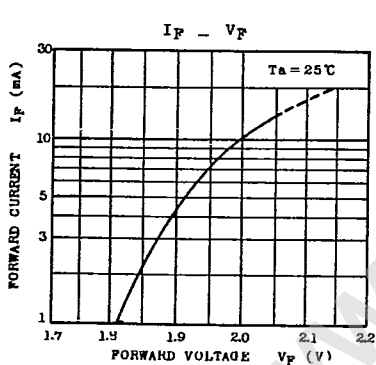
CHARACTERISTIC	SYMBOL	RATING	UNIT
Pulse Forward Current	$I_F(\text{Pulse})/\text{Seg}$	30	mA
Reverse Voltage (Note 1)	$V_R$	3	V
Storage Temperature Range	$T_{stg}$	-20~75	°C
Operating Temperature Range	$T_{opr}$	-20~60	°C
Soldering Temperature (Note 2)	$T_{solder}$	260	°C

Note 1: Duty ratio = 1/2  
 2: Within 3 seconds at 2 mm from the reflector edge

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

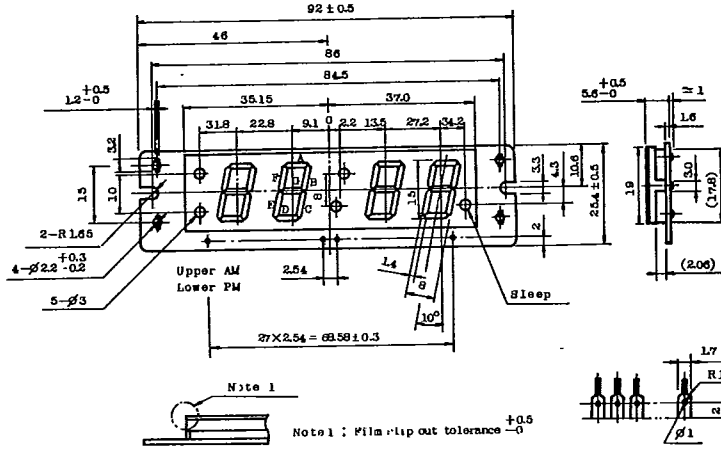
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_F$	$I_F=20\text{mA}$	1.8	2.15	2.75	V
Reverse Current	$I_R$	$V_R=3\text{V}$	-	-	5	$\mu\text{A}$
Luminous Intensity/Seg.	$I_V/\text{Seg}$	$I_F=10\text{mA}$	0.08	0.3	-	mcd
Luminous Intensity Matching Ratio	$I_V-M$	$I_F=5\text{mA}$	-	-	2.3	-
Peak Emission Wave Length	$\lambda_P$	$I_F=10\text{mA}$	-	565	-	nm
Spectral Half Line Width	$\Delta\lambda$	$I_F=10\text{mA}$	-	30	-	nm

Refer to page 249 for the figure.



PHYSICAL DIMENSIONS

Unit in mm  
Tolerances is  $\pm 0.25$   
unless otherwise noted



TERMINAL CONNECTION

TERMINAL #	CONNECTION	TERMINAL #	CONNECTION
1	AM	15	Lower Colon
2	PM	16	Lower Colon Common
3	AM, PM Common	17	10's Hour & 10's Min. Common
4	10's & Unit Hour F Segment	18	10's & Unit Min. A Segment
5	10's Hour & 10's Min Common	19	10's & Unit Min. F Segment
6	10's & Unit Hour G Segment	20	10's & Unit Min. E Segment
7	10's & Unit Hour H Segment	21	10's & Unit Min. D Segment
8	10's & Unit Hour D Segment	22	10's & Unit Min. C Segment
9	10's & Unit Hour C Segment	23	10's & Unit Min. G Segment
10	Unit Hour, Unit Min. & Sleep Common	24	N.C
11	10's & Unit Hour B Segment	25	10's & Unit Min. B Segment
12	10's & Unit Hour A Segment	26	Unit Hour, Unit Min. & Sleep Common
13	Upper Colon Common	27	10's Hour & 10's Min. Common
14	Upper Colon	28	Sleep

