

9097250 TOSHIBA (DISCRETE/OPTO)

99D 17251 DT-41-33

TLG2098A, TLG4093A TLG2248, TLG4243

GREEN COLOR 4 DIGITS LED DISPLAY

- For Duplex drive connections and available both polarity common anode or common cathode.
- 25 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)

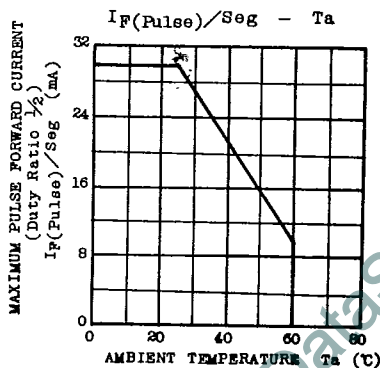
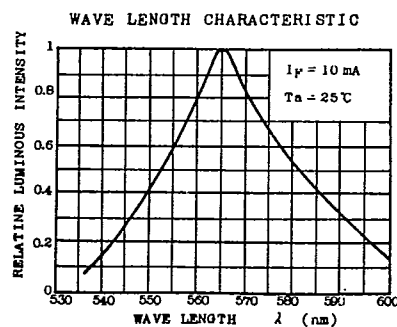
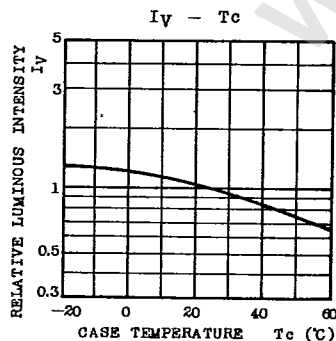
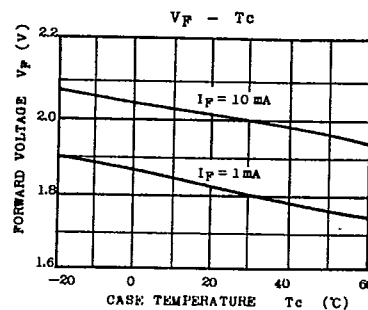
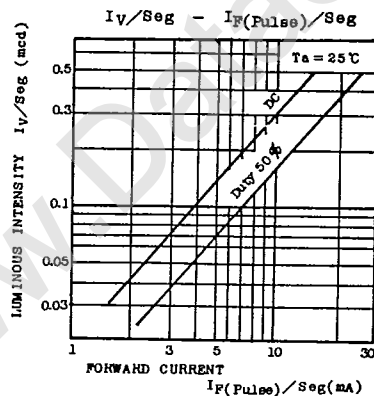
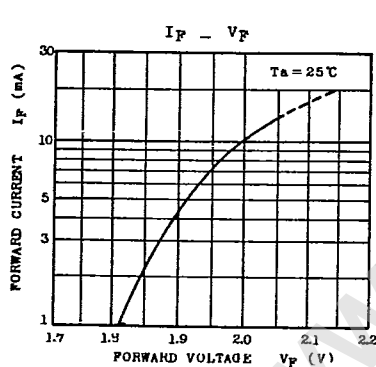
CHARACTERISTIC	SYMBOL	RATING	UNIT
Pulse Forward Current	$I_F(\text{Pulse})/\text{Seg}$	30	mA
Reverse Voltage (Note 1)	V_R	3	V
Storage Temperature Range	T_{stg}	-20~75	°C
Operating Temperature Range	T_{opr}	-20~60	°C
Soldering Temperature (Note 2)	T_{solder}	260	°C

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	μA
Luminous Intensity/Seg.	I_V/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	λ_P	$I_F=10\text{mA}$	-	565	-	nm
Spectral Half Line Width	$\Delta\lambda$	$I_F=10\text{mA}$	-	30	-	nm

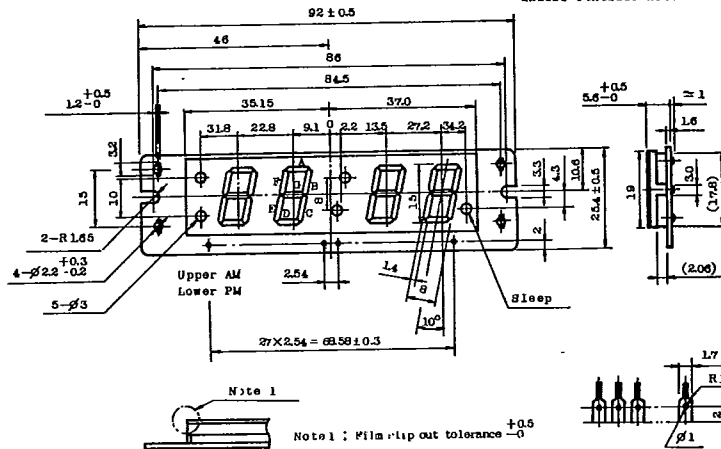


Refer to page 249 for the figure.

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PHYSICAL DIMENSIONS

Unit in mm
Tolerances is ± 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 E 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

