

9097250 TOSHIBA (DISCRETE/OPTO)

99D 17248 DT-41-33

## TLG2057A, TLG4052A, TLG2087A, TLG4082A

## GREEN COLOR 4 DIGITS LED DISPLAY

- For Use of static drive connections and available both polarity common anode or common cathode.
- 23 mm (0.9") character height, each segment is diffused and uniformly display.
- Outer color filter provides high contrast, complete practical use at 14 mA 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
TLG2057A	TLG2087A	10:00.
TLG4052A	TLG4082A	00:00.

Refer to page 246 for the figure.

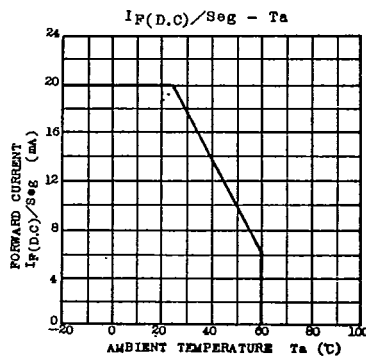
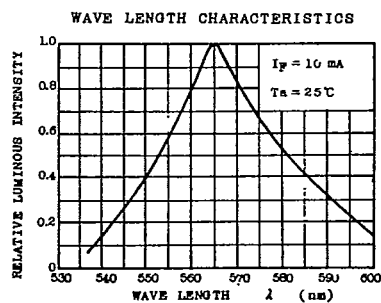
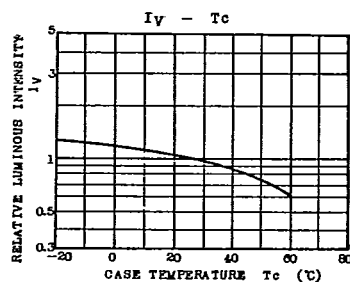
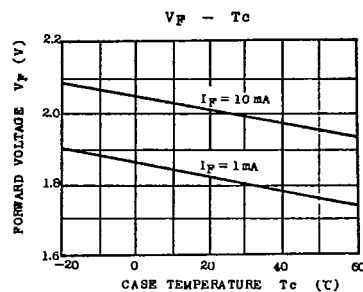
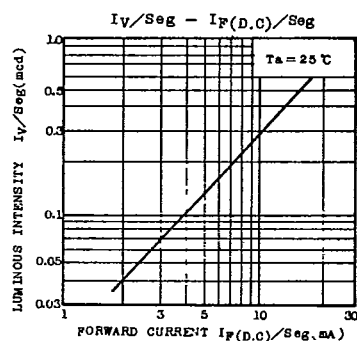
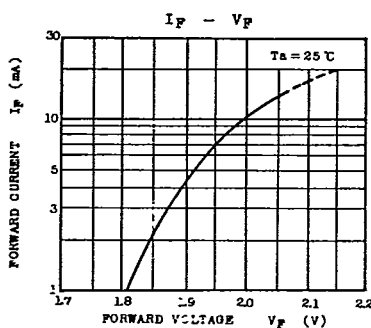
MAXIMUM RATINGS ( $T_a = 25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Forward Current/Seg.	$I_F(\text{DC})/\text{Seg}$	20	mA
Reverse Voltage	$V_R$	3	V
Storage Temperature Range	$T_{stg}$	$-20 \sim 75$	$^\circ\text{C}$
Operating Temperature Range	$T_{opr}$	$-20 \sim 60$	$^\circ\text{C}$
Soldering Temperature (Note)	$T_{solder}$	260	$^\circ\text{C}$

Note: Within 3 second at 2 mm from the reflector edge.

ELECTRICAL-OPTICAL CHARACTERISTICS ( $T_a = 25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_F$	$I_F = 10\text{mA}$	1.8	2.0	2.5	V
Reverse Current	$I_R$	$V_R = 3\text{V}$	-	-	5	mA
Luminous Intensity/Seg.	$I_V/\text{Seg}$	$I_F = 10\text{mA}$	0.08	0.3	-	mcd
Luminous Intensity Matching Ratio	$I_V - M$	$I_F = 5\text{mA}$	-	-	2.5	-
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



DT-41-33

## Unit : 50

99 ± 0.3

91.5 ± 0.5

43 34 154 0 154 34 12.5 10.5 1.2 φ26 5.1 1.3 27 ± 0.5 34 ± 0.5 2.54 24

4 - φ22

36 x 254 = 91.4 ± 0.5

otherwise not

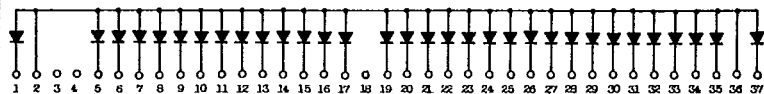
Technical drawing of a horizontal beam. A line labeled "hotel" points to the top edge. A dimension line indicates a length of  $1003$ . Below this, a dimension line indicates a length of  $105 \pm 0.5$ . An angle of  $10^\circ$  is shown at the left end of the beam.

Detail terminal

Note1 : Film slip out tolerance  $\pm 0.5$

TERMINAL NO.		CONNECTION		TERMINAL NO.		CONNECTION	
1	AM/PM	U	U	20	Upper Colon	O	O
2	Common			21	Lower Colon	O	O
3		X	X	22	10's Min. F	O	O
4		X	X	23	10's Min. G	U	O
5	10's Hour A	X	U	24	10's Min. A	U	O
6	10's Hour F	X	U	25	10's Min. B	U	O
7	10's Hour G	X	U	26	10's Min. D	O	O
8	10's Hour E	X	U	27	10's Min. E	O	U
9	10's Hour D	X	U	28	10's Min. U	O	O
10	10's Hour C	U	U	29	Unit Min. F	O	O
11	10's Hour B	U	U	30	Unit Min. G	U	U
12	Unit Hour F	U	U	31	Unit Min. A	U	O
13	Unit Hour G	U	U	32	Unit Min. B	U	U
14	Unit Hour A	U	U	33	Unit Min. E	U	O
15	Unit Hour B	U	U	34	Unit Min. D	U	O
16	Unit Hour K	U	U	35	Unit Min. C	O	O
17	Unit Hour D	U	U	36	Common		
18		X	X				
19	Unit hour C	U	U	37	Alarm/Sleep		

TLG2057A/TLR2057A, TLG4052A/TLR4052A (COMMON ANODE)



TLG2087A/TLR2087A, TLG4082A/TLR4082A (COMMON CATHODE)

