

9097250 TOSHIBA (DISCRETE/OPTO)

99D 17259 DT-41-33

TLG2177, TLG4172, TLG2207, TLG4202

GREEN COLOR 4 DIGITS LED DISPLAY

- For use of Static drive connections and available both polarity common anode or common cathode.
- 15 mm (0.6") character height, each segment is diffused and uniformly display.
- Outer color filter provides high contrast, complete practical use at 10 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. DISPLAY FONT

COMMON ANODE	COMMON CATHODE	FULLY DISPLAY FONT
TLG2177	TLG2207	: 18:88
TLG4172	TLG4202	: 88:88

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

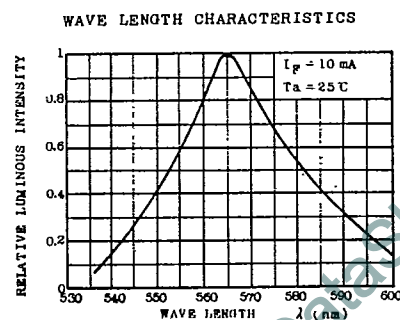
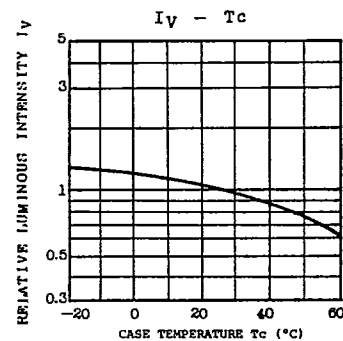
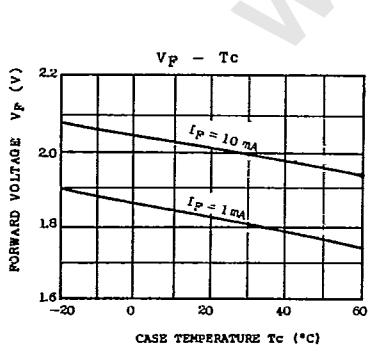
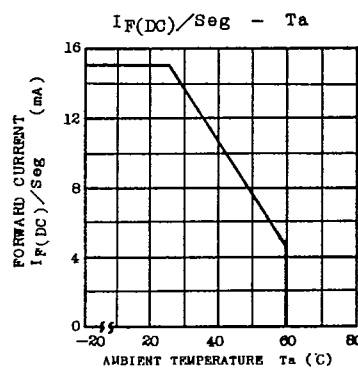
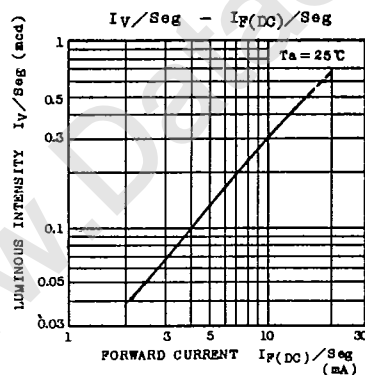
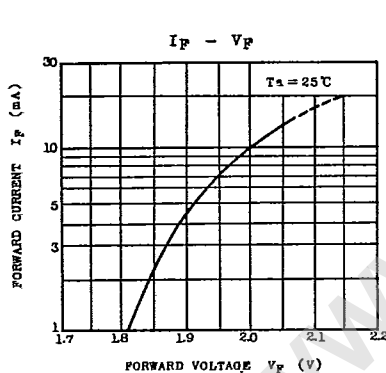
CHARACTERISTIC	SYMBOL	RATING	UNIT
Forward Current/Seg.	$I_F(\text{DC})/\text{Seg.}$	15	mA
Reverse Voltage	V_R	3	V
Storage Temperature Range	T_{stg}	$-20 \sim 75$	$^\circ\text{C}$
Operating Temperature Range	T_{opr}	$-20 \sim 60$	$^\circ\text{C}$
Soldering Temperature (Note)	T_{solder}	260	$^\circ\text{C}$

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

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

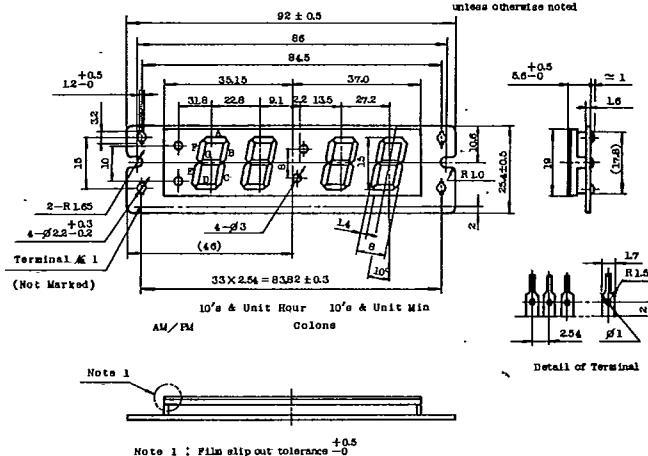
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	V_F	$I_F = 10\text{mA}$	1.8	2.0	2.5	V
Reverse Current	I_R	$V_R = 3\text{V}$	-	-	5	μA
Luminous Intensity/Seg.	$I_V/\text{Seg.}$	$I_F = 10\text{mA}$	0.08	0.3	-	mc
Luminous Intensity Matching Ratio	$I_V - M$	$I_F = 5\text{mA}$	-	-	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 257 for the figure.



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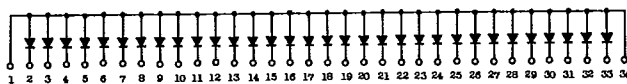
Unit in mm
Tolerance is ± 0.25
unless otherwise noted



TERMINAL CONNECTION (○: CONNECTION, ×: NO CONNECTION)

TERMINAL CONNECTION		(○: CONNECTION, ×: NO CONNECTION)		TERMINAL CONNECTION		(○: CONNECTION, ×: NO CONNECTION)	
TERMINAL A	CONNECTION	TLC2177 TLC2107 TLC1977 TLC2207	TLC4172 TLC4102 TLC4172 TLC4202	TERMINAL A	CONNECTION	TLC2177 TLC2107 TLC2207	TLC4172 TLC4102 TLC4172 TLC4202
1	Common			18	Upper Colon	○	○
2	PM	○		19	Lower Colon	○	○
3	AM	○		20	10's Min. F	○	○
4	10's Hour A	×	○	21	10's Min. G	○	○
5	10's Hour F	×	○	22	10's Min. A	○	○
6	10's Hour G	×	○	23	10's Min. B	○	○
7	10's Hour E	×	○	24	10's Min. D	○	○
8	10's Hour D	×	○	25	10's Min. E	○	○
9	10's Hour C			26	10's Min. C	○	○
10	10's Hour B	○		27	Unit Min. F	○	○
11	Unit Hour F	○	○	28	Unit Min. G	○	○
12	Unit Hour G	○	○	29	Unit Min. A	○	○
13	Unit Hour A	○		30	Unit Min. B	○	○
14	Unit Hour B	○	○	31	Unit Min. E	○	○
15	Unit Hour E	○	○	32	Unit Min. D	○	○
16	Unit Hour D	○	○	33	Unit Min. C	○	○
17	Unit Hour C	○	○	34	Common		

TLG2177/TLR2177, TLG4172/TLR4172 COMMON ANODE TYPE



TLG2207/TLR2207, TLR4202/TLR4202 COMMON CATHODE TYPE

