

TLG2218, TLG4213, TLG2168, TLG4163

GREEN COLOR 4 DIGITS LED DISPLAY

- Clock display for multiplex drive operation and available both polarity common anode or common cathode.
- 15 mm (0.6") Character Height, each segment represents diffused and uniform display with milk white filter color.
- Practical Brightness are obtained at about 50 mA with 1/6 of duty ratio.
- 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
TLG2218	TLG2168	10:00.
TLG4213	TLG4163	00:00.

Refer to page 263 for the figure.

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

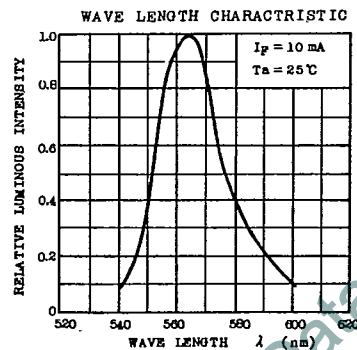
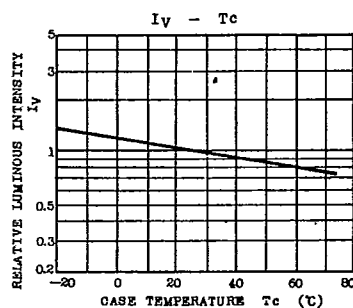
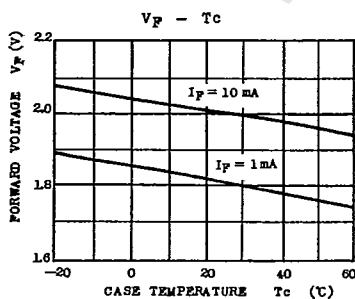
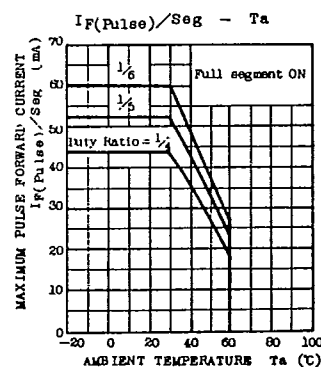
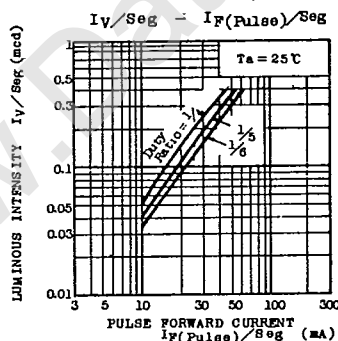
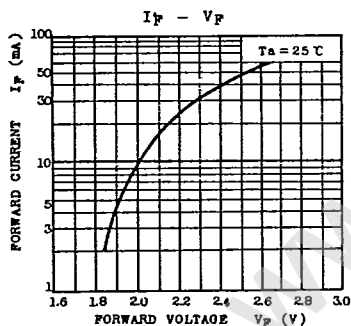
CHARACTERISTIC	SYMBOL	RATING	UNIT
Pulse Forward Current/Seg. (Note 1)	$I_F(\text{Pulse})/\text{Seg}$	60	mA
Reverse Voltage	V_R	3	V
Storage Temperature Range	T_{stg}	$-20 \sim +75$	$^\circ\text{C}$
Operating Temperature Range	T_{opg}	$-20 \sim +60$	$^\circ\text{C}$
Soldering Temperature (Note 2)	T_{solder}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

Note 1: Duty ratio = 1/6

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

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

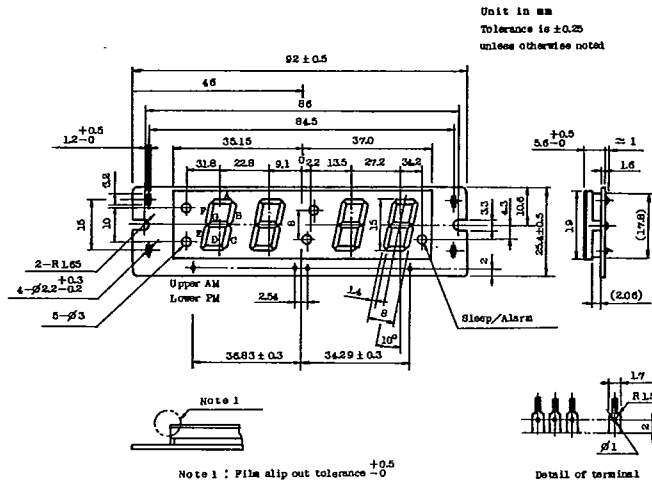
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	V_F	$I_F = 50\text{mA}$	1.9	2.45	3.35	V
Reverse Current	I_R	$V_R = 3\text{V}$	-	-	5	μA
Luminous Intensity/Seg.	I_V/Seg	$I_F = 50\text{mA}$, Duty Ratio = 1/6	0.16	0.30	-	mcad
Luminous Intensity Matching Ratio	$I_V - M$	$I_F = 50\text{mA}$, Duty Ratio = 1/6	-	-	2.5	-
Peak Emission Wave Length	λ_P	$I_F = 10\text{mA}$	-	565	-	nm
Spectral Half Line Width	$\Delta\lambda$	$I_F = 10\text{mA}$	-	25	-	nm



9097250 TOSHIBA (DISCRETE/OPTO)

99D 17266 DT-41-33

PHYSICAL DIMENSIONS



TERMINAL CONNECTION

TERMINAL	CONNECTION	TERMINAL	CONNECTION
1	AM, PM Common	11 ~ 21	N.C.
2	AM	22	0 Segment
3	PM	23	10's Minute Common
4	A Segment	24	Unit Minute Common
5	Unit Hour Common	25	0 Segment
6	10's Hour Common	26	B Segment
7	E Segment	27	F Segment
8	D Segment	28	Sleep/Alarm Common
9	Colons Common	29	Sleep/Alarm
10	Colons		

