

9097250 TOSHIBA (DISCRETE/OPTO)

99D 17262 DT-41-33

TLG2198, TLG4192, TLG2268, TLG4262

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 20mA (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. DISPLAY FONT

COMMON ANODE	COMMON CATHODE	FULLY DISPLAY FONT
TLR2198	TLR2268	:18:88.
TLR4192	TLR4262	:28:88.

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

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

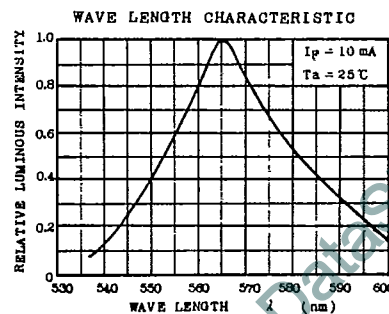
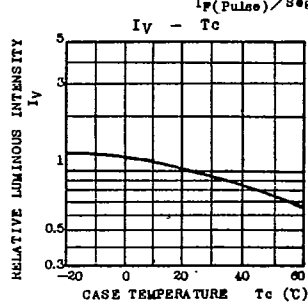
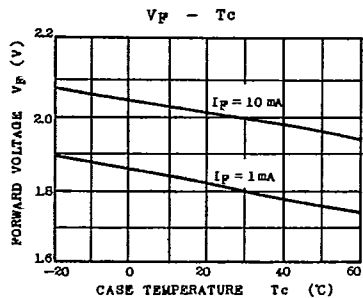
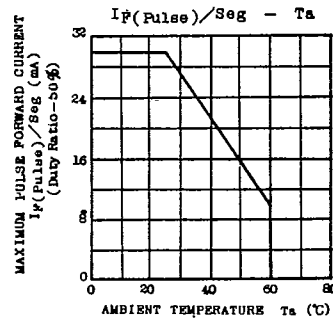
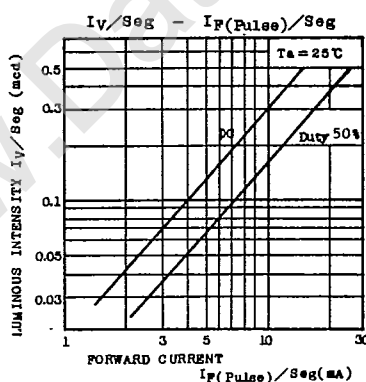
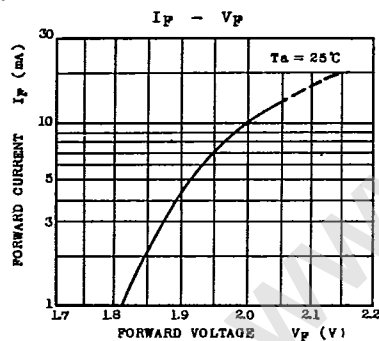
Note 1: Duty ratio = 1/2

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

Refer to page 260 for the figure.

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

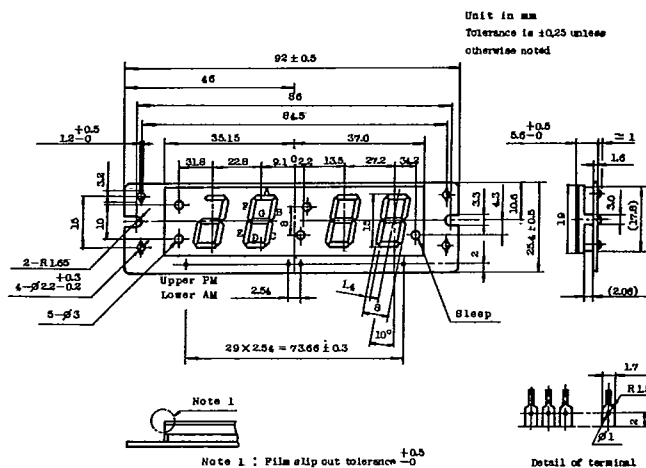
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	V_F	$I_F = 20\text{mA}$	1.8	2.15	2.75	V
Reverse Current	I_R	$V_R = 3\text{V}$	-	-	5	μA
Luminous Intensity/seg.	$I_V/\text{seg.}$	$I_F = 10\text{mA}$	0.08	0.3	-	med
Luminous Intensity Matching Ratio	$I_V - M$	$I_F = 5\text{mA}$	-	-	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



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PHYSICAL DIMENSIONS



TERMINAL CONNECTION

TERMINAL NO.	CONNECTION	TERMINAL NO.	CONNECTION
1, 29	PM, 10's Hour A.D. Unit Hour D.E.F.A, Colon, 10's Min A.B.D, & Unit Min D.E.F.O, Common	12	Unit Hour C,D
		13	Unit Hour A,F
		14	N.C
2, 28	10's Hour B.C.E.O, Unit Hour A.B.O, & 10's Min D.E.F.O, Unit Min A.B.O, Common	15	10's Min A,F
		16	10's Min B,G
		17	10's Min C,D
3	AM Common	18	10's Min E & Unit Min E
4	AM	19	Unit Min B,G
5	PM	20	Unit Min O,D
6	10's Hour B	21	Unit Min A,F
7	10's Hour A,G	22, 23 24, 25	N.C
8	10's Hour D,E	27	Sleep
9	10's Hour O & Unit Hour E	28	Sleep Common
10	Unit Hour B,G	30	Colon
11	N.C		

