

0.6 INCH RED 4-DIGITS DISPLAY (DUPLEX DRIVE)

TLR2198, TLR4192, TLR2268, TLR4262

RED COLOR 4 DIGITS LED DISPLAY

- For Duplex Drive connection 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 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. DISPLAY FONT

COMMON ANODE	COMMON CATHODE	FULLY DISPLAY FONT
TLG2198	TLG2268	: 18:88.
TLG4192	TLG4262	: 28:88.

Refer to page 172 for the figure.

MAXIMUM RATINGS (Ta = 25°C)

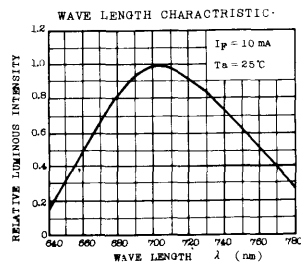
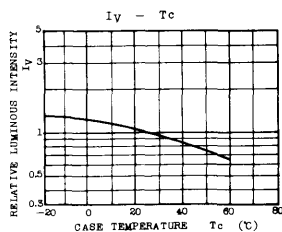
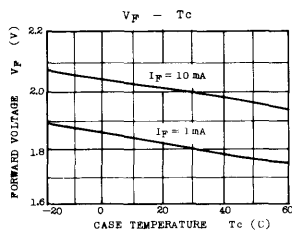
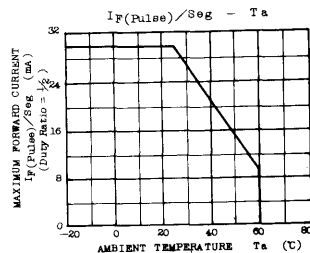
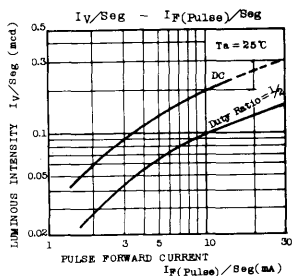
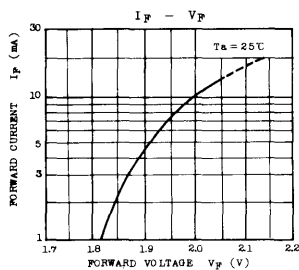
CHARACTERISTIC	SYMBOL	RATING	UNIT
Pulse Forward Current (Note 1)	$I_F(\text{Pulse})/\text{Seg}$	30	mA
Reverse Voltage	V_R	3	V
Storage Temperature Range	T_{stg}	-20~75	°C
Operating Temperature Range	T_{opr}	-20~60	°C
Soldering Temperature (Note 2)	T_{solder}	260	°C

Note 1: Duty ratio = 1/2

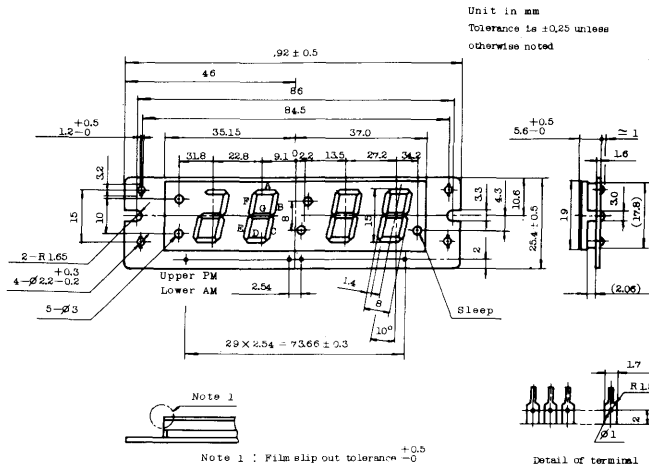
2: Within 3 second at 2 mm from the reflector edge.

ELECTRICAL-OPTICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTICS	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	$I_F=10\text{mA}$	0.1	0.2	-	mcd
Luminous Intensity Matching Ratio	I_V-M	$I_F=5\text{mA}$	-	-	2.5	-
Peak Emission Wave Length	λ_p	$I_F=10\text{mA}$	-	700	-	nm
Spectral Half Line Width	$\Delta\lambda$	$I_F=10\text{mA}$	-	100	-	nm

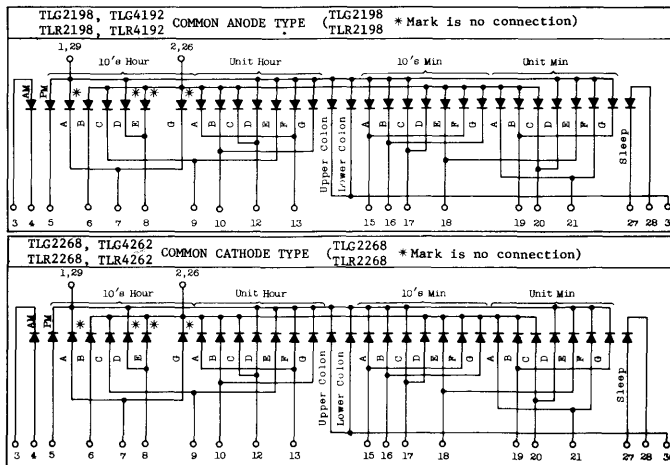


PHYSICAL DIMENSIONS



TERMINAL CONNECTION

TERMINAL #	CONNECTION	TERMINAL #	CONNECTION
1, 29	PM, 10's Hour A.D. Unit Hour D.E.F.G, Colon, 10's Min A.B.C, & Unit Min D.E.F.G, Common	12	Unit Hour C,D
		13	Unit Hour A,F
		14	N.C
2, 26	10's Hour B.C.E.G, Unit Hour A.B.C. & 10's Min D.E.F.G, Unit Min A.B.C, 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 C,D
6	10's Hour B	21	Unit Min A,F
7	10's Hour A,G	22, 23	N.C
8	10's Hour D,E	24, 25	
9	10's Hour C & Unit Hour E	27	Sleep
10	Unit Hour B,G	28	Sleep Common
11	N.C	30	Colon



Order: D1 D2 D3 D4

1	A1		
2		A2	
3			A-IND1 (LEFT)
4			C-IND1
5	PM		
6		D1-B	
7			NC
8			NC
9	D2-E		D1-C
10	D2-G		D2-B
11			NC
12	D2-D		D2-C
13	D2-F		D2-A
14			NC
15	D3-A		D3-F
16	D3-B		D3-G
17	D3-C		D3-D
18	D4-E		D3-E
19	D4-G		D4-B
20	D4-D		D4-C
21	D4-F		D4-A
22			NC
23			NC
24			NC
25			NC
26		A2	
27			C-IND2 (RIGHT)
28			A-IND2
29	A1		
30	COLON		