

9097250 TOSHIBA {DISCRETE/OPTO}

99D 17268 DT-41-33

TLG2231, TLG4236, TLG2281, TLG4286

GREEN COLOR 4 DIGITS LED DISPLAY

- Even digit space for use of the multiplex drive connections and available both polarity common anode or cathode.
- 15 mm (0.6") character height, each segment is diffused and uniformly display.
- Outer color filter provides high contrast, practical brightness are obtained at about 50mA 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 DISPLAYED FONT

COMMON ANODE	COMMON CATHODE	FULLY DISPLAY FONT
TLG2231	TLG2281	: 1 . 0 . 0 . 0 :
TLG4236	TLG4286	: 0 . 0 . 0 . 0 :

MAXIMUM RATINGS (Ta = 25°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}	-20~75	°C
Operating Temperature Range	T_{opr}	-20~60	°C
Soldering Temperature (Note 2)	T_{solder}	260	°C

Note 1: Duty ratio = 1/6

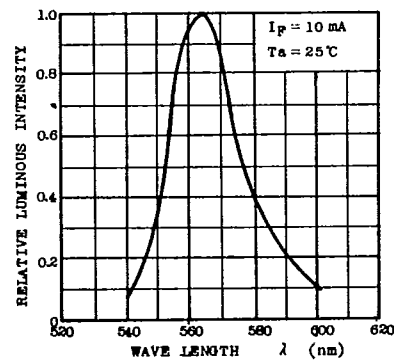
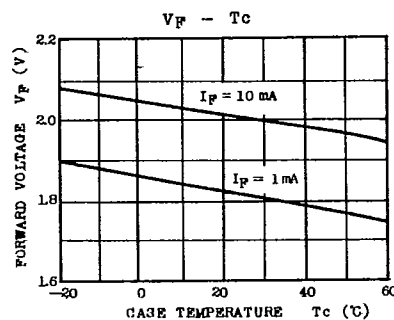
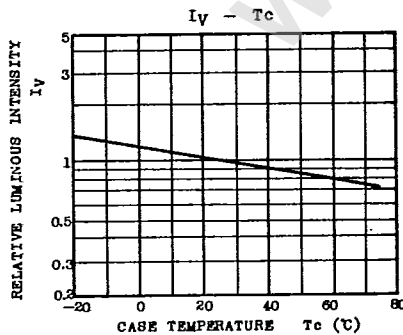
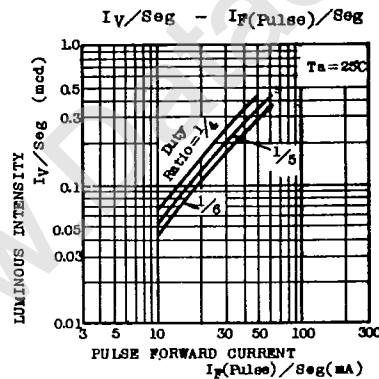
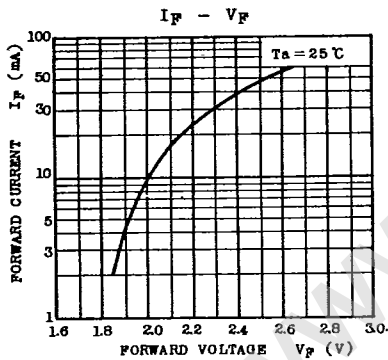
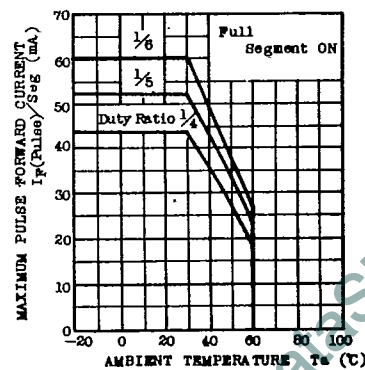
2: Within 3 second at 2 mm from the reflector edge.

Refer to page 266 for the figure.

ELECTRICAL-OPTICAL CHARACTERISTICS (Ta = 25°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 1/6	0.08	0.30	-	mcd
Luminous Intensity Matching Ratio	I_V-M	$I_F=50\text{mA}$ Duty 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

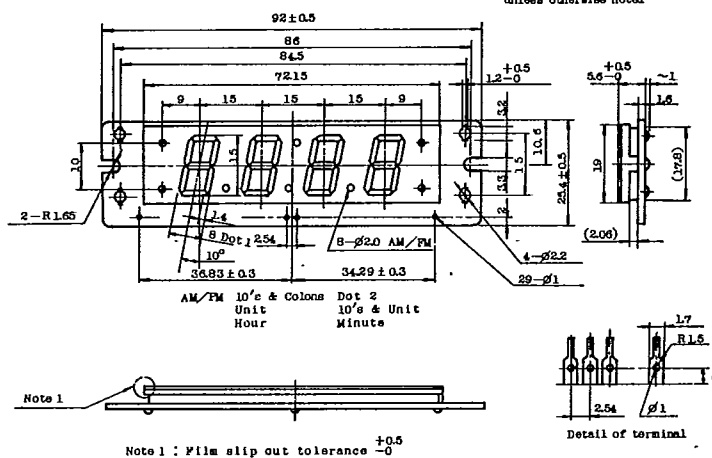
WAVE LENGTH CHARACTERISTIC

 $I_F(\text{Pulse})/\text{Seg} - T_a$ 

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PHYSICAL DIMENSIONS

Unit in mm
Tolerance is ± 0.25
unless otherwise noted

TERMINAL CONNECTION

TERMINAL #	CONNECTION	TERMINAL #	CONNECTION
1	AM, FM Common	17	G Segment
2	AM	18	Dot 2 Common
3	FM	19	Dot 2
4	A Segment	20	10's Minute Common
5	Unit Hour Common	21	Unit Minute Common
6	10's Hour Common	22	G Segment
7	E Segment	23	B Segment
8	D Segment	24	F Segment
9	Dot 1 Common	25	AM
10	Dot 1	26	FM
11	Lower Colon Common	27	AM, FM Common
12	Lower Colon	28	Upper Colon
13 ~ 16	N.C.	29	Upper Colon Common

