TOSHIBA LED DISPLAY

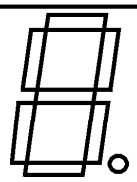
TLG358, TLG359, TLS358 TLS359, TLR358, TLR359

- 13.46mm (0.53") Character Height Numerical Display.
- Application : Numerical Readout for Instrument and Consumer Product.
- Luminous Intensity Ranking Performed Uniform Display.
- Available Both Types of Package Colors.
  TL□xxx : Gray Color Coated Only on Surface.
  TL□xxxT : Black Color Coated Only on Surface.

PRODUCT LINE UP

TLG358 / TLG359	GaP GREEN
TLS358 / TLS359	GaAsP RED
TLR358 / TLR359	GaP RED

TYPE No. vs FULLY DISPLAY FONT

COMMON CATHODE	COMMON ANODE	FULLY DISPLAY FONT
TLG358 TLS358 TLR358	TLG359 TLS359 TLR359	

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
DC Forward Current / seg.	I_F(DC) / seg	20	mA
Pulse Forward Current / seg. (Note)	I_{FP} / seg	110	mA
Reverse Voltage / seg.	V_R	6	V
Operating Temperature Range	T_{opr}	−35~85	°C
Storage Temperature Range	T_{stg}	−40~85	°C

Note : Pulse Width = 1ms, Duty Ratio = 1 / 10

961001EAC2

ELECTRICAL-OPTICAL CHARACTERISTICS (Ta = 25°C)

TYPE No.	EMITTING WAVE LENGTH			LUMINOUS INTENSITY I_V / seg			FORWARD VOLTAGE V_F / seg				REVERSE CURRENT I_R / seg		LUMINOUS INTENSITY MATCHING RATIO $I_{V\text{-}M}$	
	λ_p	$\Delta\lambda$	I_F/seg	Min.	Typ.	I_F/seg	Min.	Typ.	Max.	I_F/seg	Max.	V_R/seg	Max.	I_F/seg
TLG Series	565	30	10	0.56	1.42	10	1.7	2.0	2.5	10	5	6	2.3	10
TLS Series	635	40		0.73	1.56		1.7	1.9	2.5					
TLR Series	700	100		0.26	0.70	5	1.4	2.0	2.5					5
UNIT	nm		mA	mcd		mA	V			mA	μA	V	—	mA

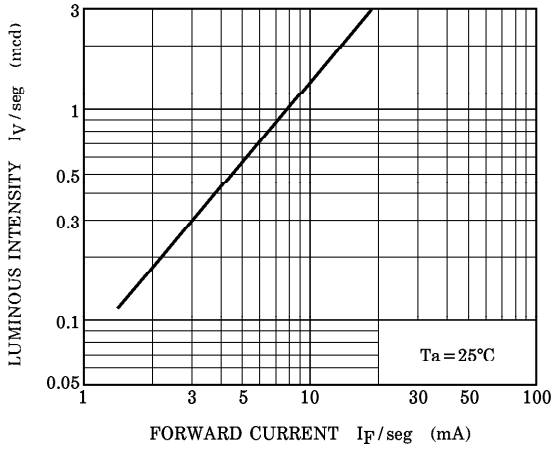
PRECAUTION

Please be careful of the following.

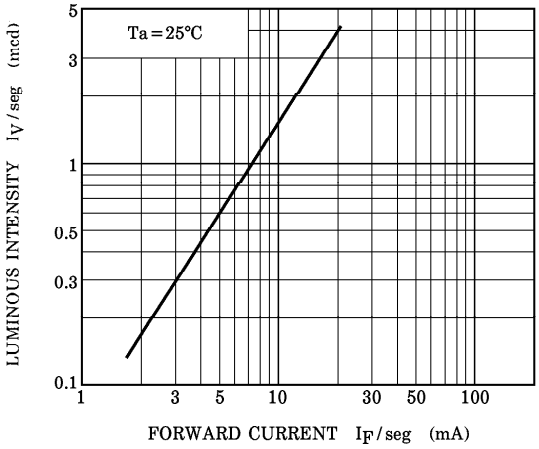
- Soldering temperature should be less than 260°C for 3 seconds at 2.0mm from the seating plane.

I_V / seg – I_F / seg

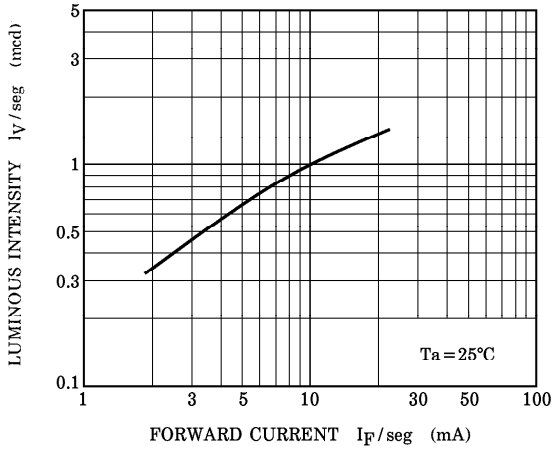
TLG Series



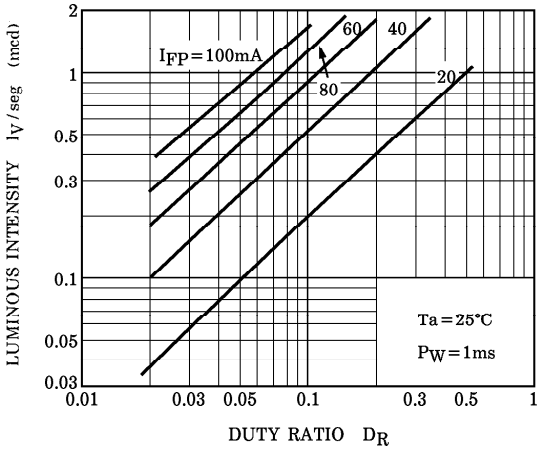
TLS Series



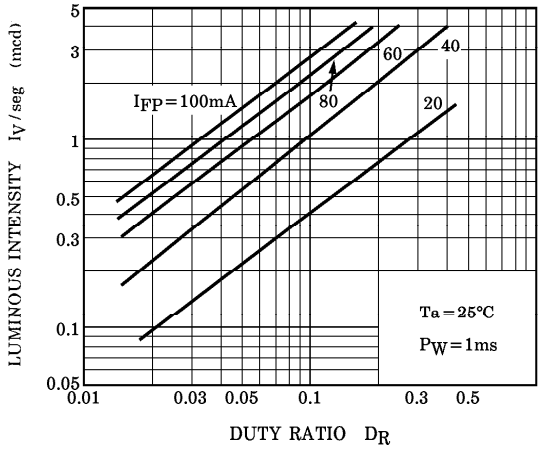
TLR Series



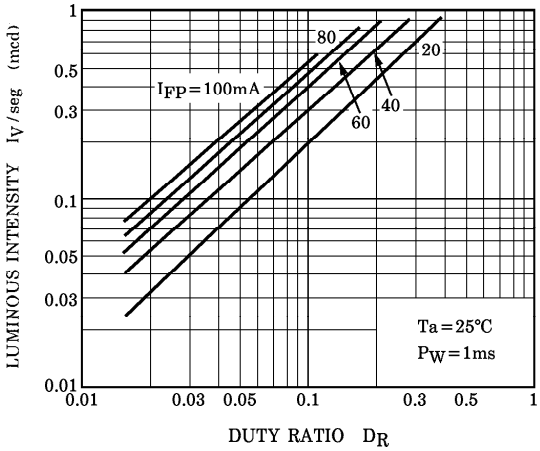
TLG Series



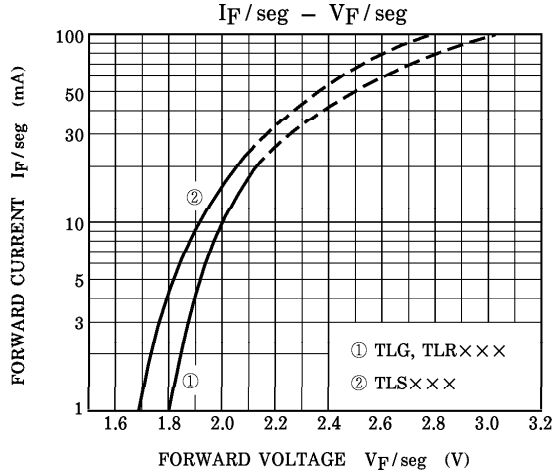
TLS Series



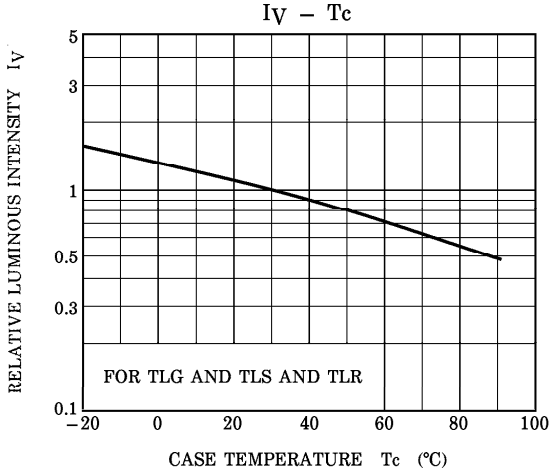
TLR Series



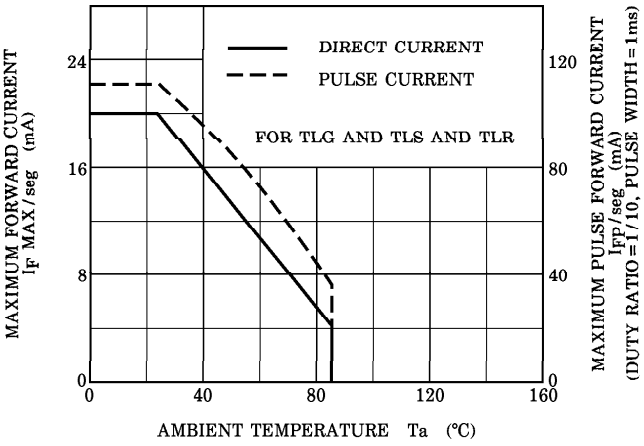
I_F / seg – V_F / seg



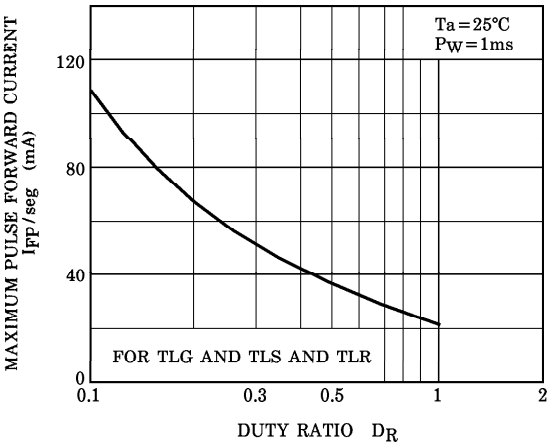
I_V – Tc



I_F MAX / seg – Ta

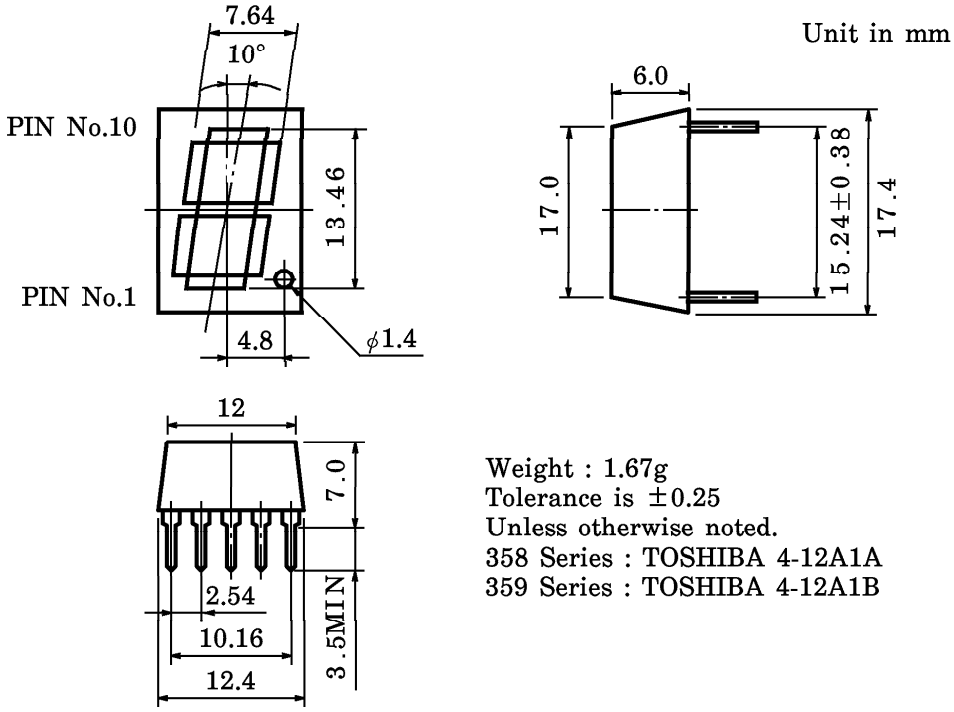


I_{FP} / seg – D_R



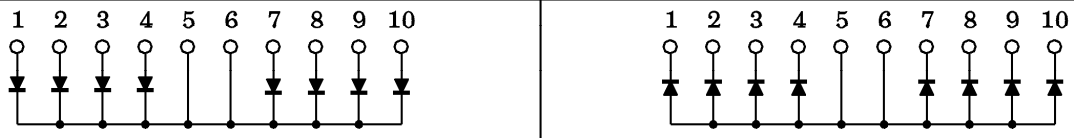
OUTLINE DIMENSIONS

Unit in mm



Weight : 1.67g
Tolerance is ±0.25
Unless otherwise noted.
358 Series : TOSHIBA 4-12A1A
359 Series : TOSHIBA 4-12A1B

PIN CONNECTION



358 Series		359 Series	
PIN No.	CONNECTION	PIN No.	CONNECTION
1	Anode e	1	Cathode e
2	Anode d	2	Cathode d
3	Anode c	3	Cathode c
4	Anode Dp	4	Cathode Dp
5	Common Cathode	5	Common Anode
6	Common Cathode	6	Common Anode
7	Anode b	7	Cathode b
8	Anode a	8	Cathode a
9	Anode g	9	Cathode g
10	Anode f	10	Cathode f