

## TOSHIBA LED DISPLAY

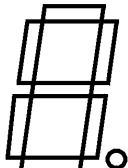
**TLG358T, TLG359T, TLS358T  
TLS359T, TLR358T, TLR359T**

- 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

TLG358T / TLG359T	GaP GREEN
TLS358T / TLS359T	GaAsP RED
TLR358T / TLR359T	GaP RED

## TYPE No. vs FULLY DISPLAY FONT

COMMON CATHODE	COMMON ANODE	FULLY DISPLAY FONT
TLG358T TLS358T TLR358T	TLG359T TLS359T TLR359T	

## MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
DC Forward Current / seg.	I <sub>F</sub> (DC) / seg	20	mA
Pulse Forward Current / seg. (Note)	I <sub>FP</sub> / seg	110	mA
Reverse Voltage / seg.	V <sub>R</sub>	6	V
Operating Temperature Range	T <sub>opr</sub>	-35~85	°C
Storage Temperature Range	T <sub>stg</sub>	-40~85	°C

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

## ELECTRICAL-OPTICAL CHARACTERISTICS (Ta = 25°C)

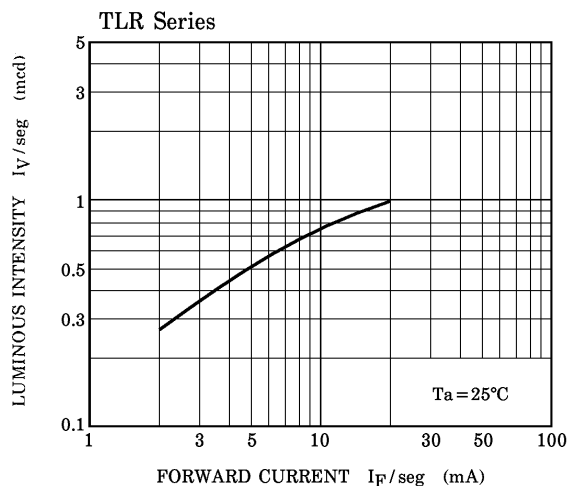
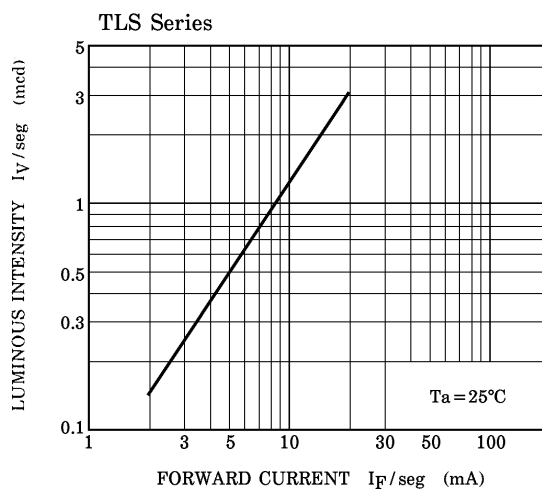
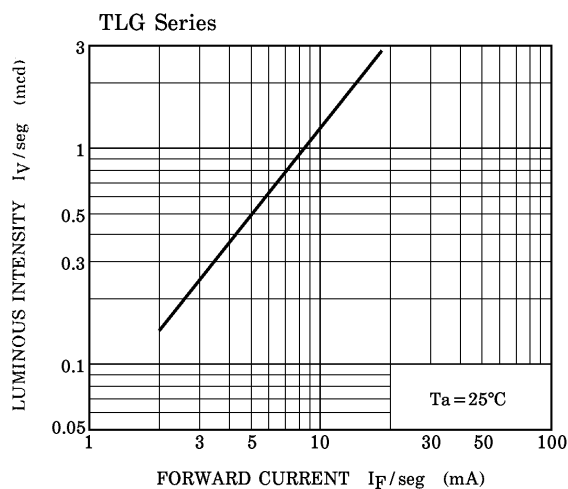
TYPE No.	EMITTING WAVE LENGTH			LUMINOUS INTENSITY I <sub>V</sub> / seg			FORWARD VOLTAGE V <sub>F</sub> / seg				REVERSE CURRENT I <sub>R</sub> / seg		LUMINOUS INTENSITY MATCHING RATIO I <sub>V-M</sub>	
	$\lambda_p$	$\Delta\lambda$	I <sub>F</sub> /seg	Min.	Typ.	I <sub>F</sub> /seg	Min.	Typ.	Max.	I <sub>F</sub> /seg	Max.	V <sub>R</sub> /seg	Max.	I <sub>F</sub> /seg
TLG Series	565	30	10	0.45	1.20	10	1.7	2.0	2.5	10	5	6	2.3	10
TLS Series	635	40		0.60	1.29		1.7	1.9	2.5					
TLR Series	700	100		0.19	0.51		1.4	2.0	2.5					5
UNIT	nm		mA	mcd		mA	V			mA	$\mu$ A	V	—	mA

## PRECAUTION

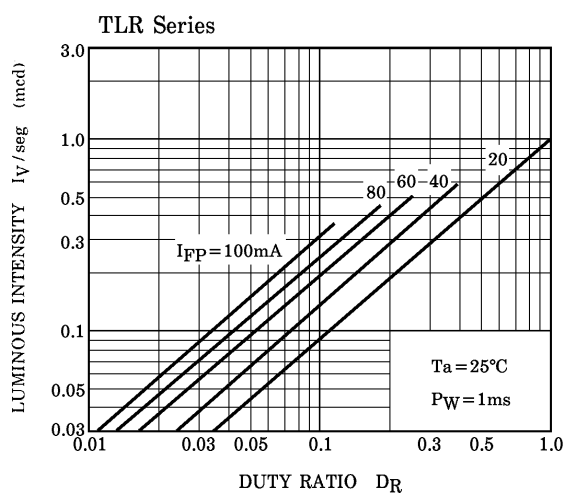
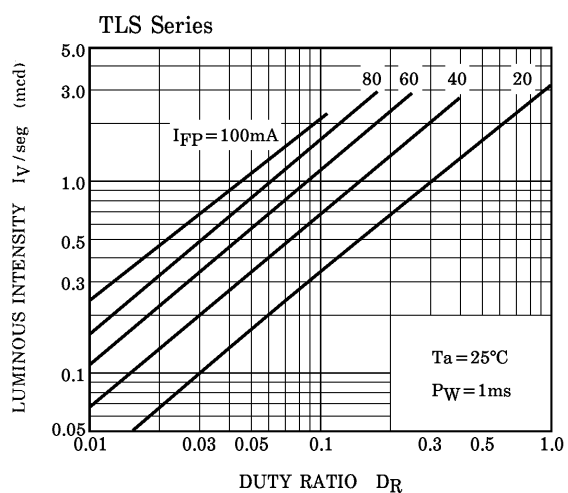
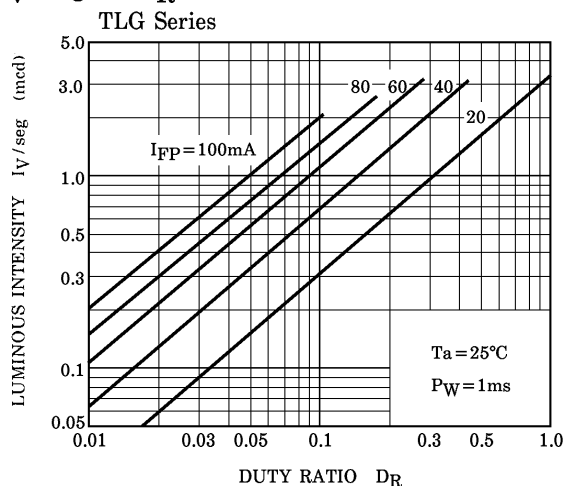
Please be careful of the following.

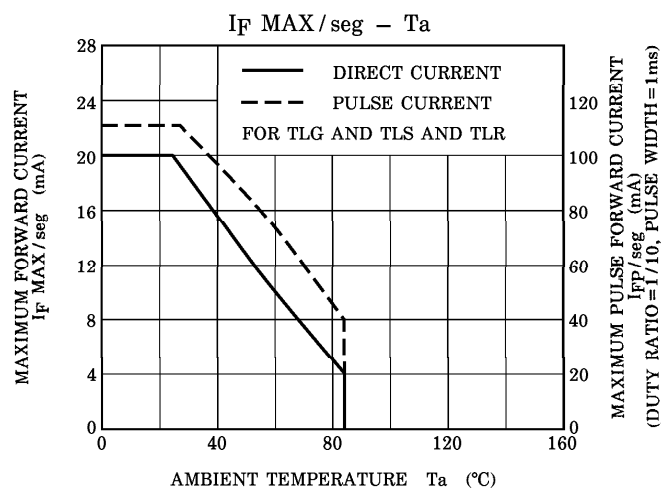
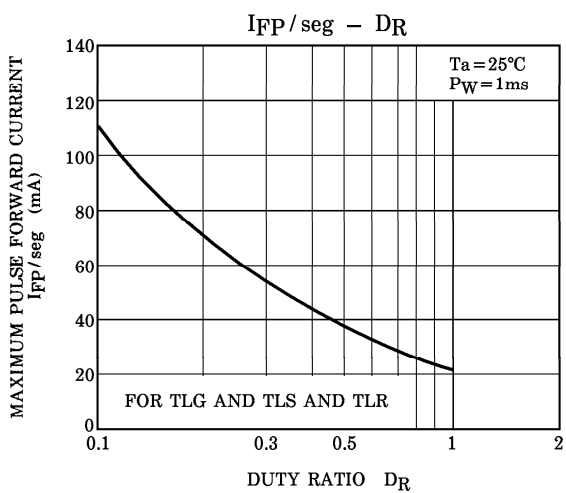
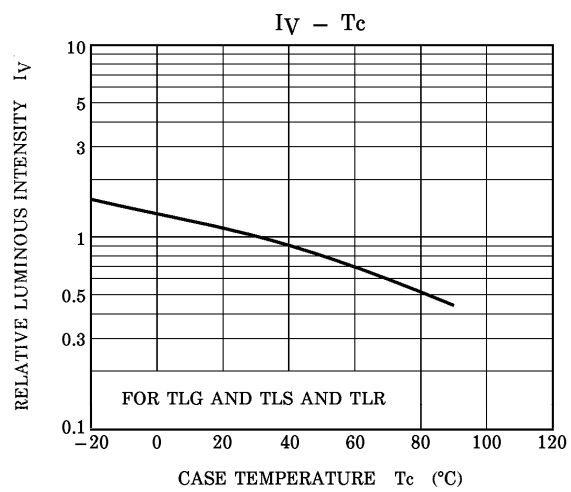
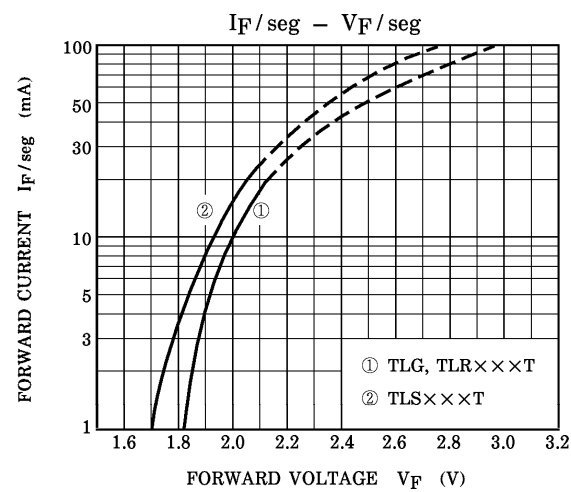
- Soldering temperature should be less than 260°C for 3 seconds at 2.0mm from the seating plane.

$I_V/\text{seg} - I_F/\text{seg}$

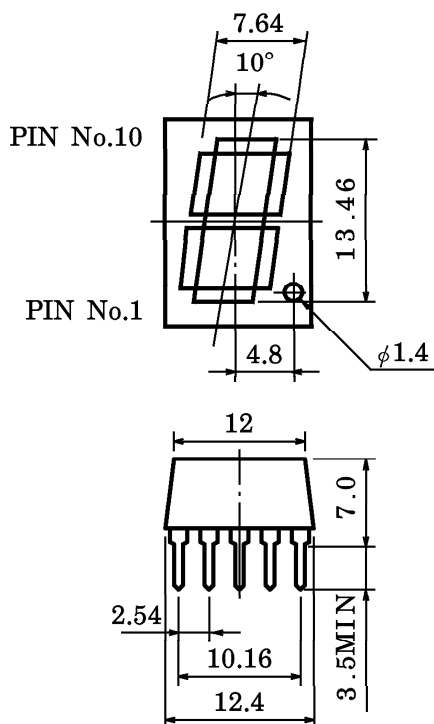


$I_V/\text{seg} - D_R$





OUTLINE DIMENSIONS



Unit in mm  
Tolerance is  $\pm 0.25$   
Unless otherwise noted.  
Weight : 1.67g  
TLR358, TLR358T : TOSHIBA 4-12A1A  
TLR359, TLR359T : TOSHIBA 4-12A1B

PIN CONNECTION

358T Series										359T Series									
1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10
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								

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