

# TOSHIBA

## TLG358, TLG359, TLS358, TLS359, TLR358, TLR359

TOSHIBA LED DISPLAY

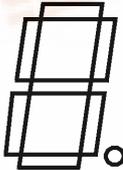
### TLG358, TLG359, TLS358 TLS359, TLR358, TLR359

- 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.	$I_F(\text{DC}) / \text{seg}$	20	mA
Pulse Forward Current / seg. (Note)	$I_{FP} / \text{seg}$	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

ELECTRICAL-OPTICAL CHARACTERISTICS (Ta = 25°C)

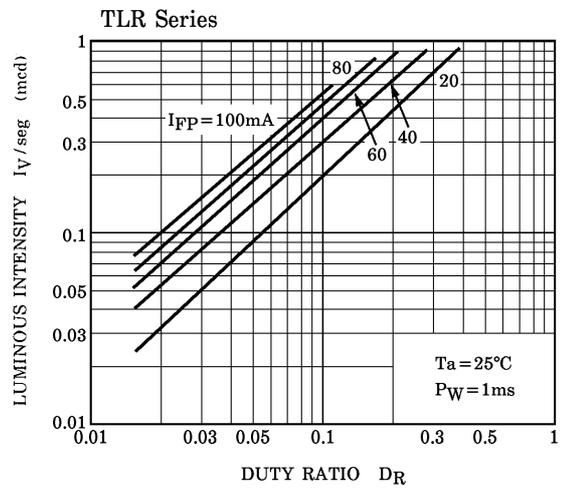
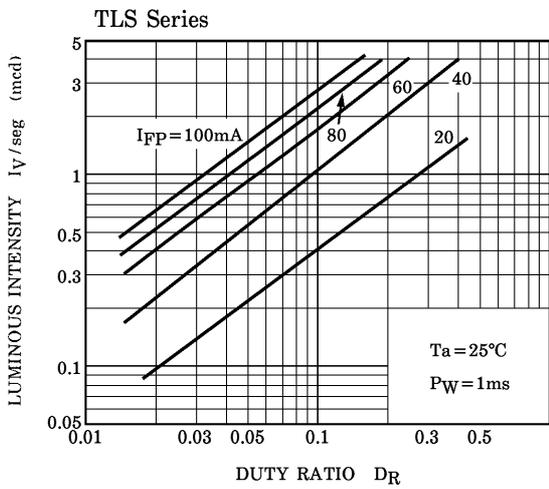
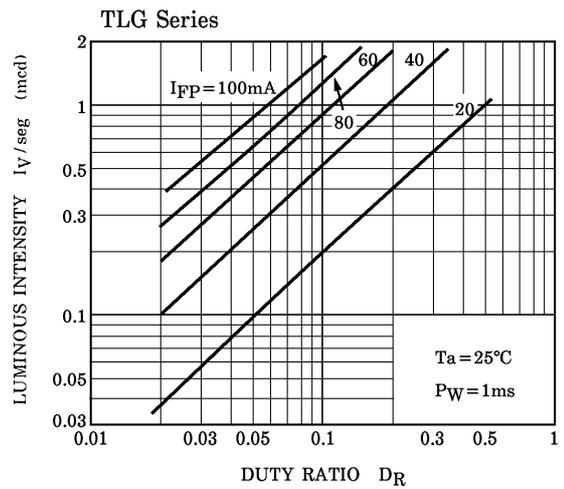
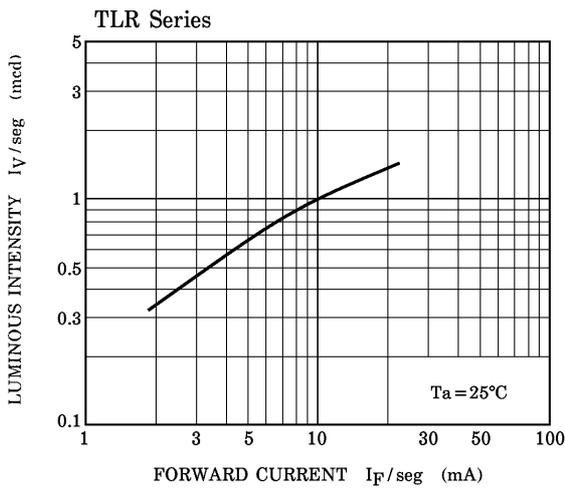
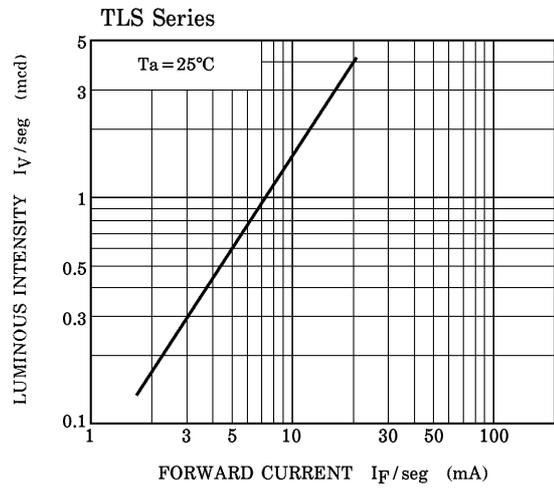
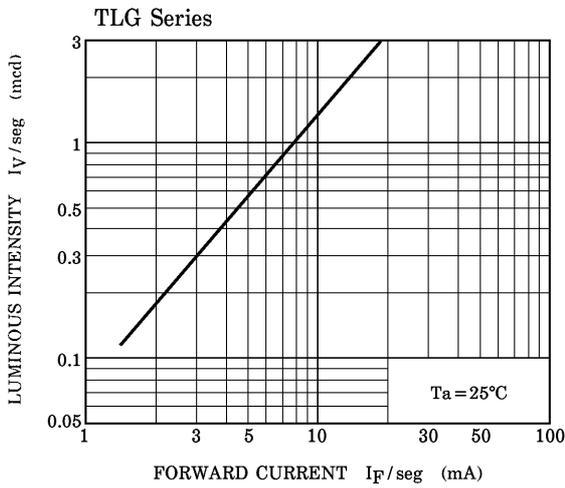
TYPE No.	EMITTING WAVE LENGTH			LUMINOUS INTENSITY I <sub>V</sub> /seg			FORWARD VOLTAGE V <sub>F</sub> /seg				REVERSE CURRENT I <sub>R</sub> /seg		LUMINOUS INTENSITY MATCHING RATIO I <sub>V-M</sub>	
	λ <sub>p</sub>	Δλ	I <sub>F</sub> /seg	Min.	Typ.	I <sub>F</sub> /seg	Min.	Typ.	Max.	I <sub>F</sub> /seg	Max.	V <sub>R</sub> /seg	Max.	I <sub>F</sub> /seg
TLG Series	565	30	10	0.56	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					
UNIT	nm		mA	mcd		mA	V			mA	μA	V	—	mA

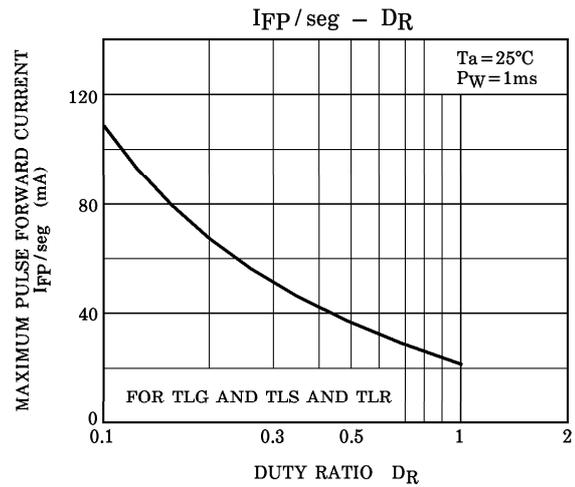
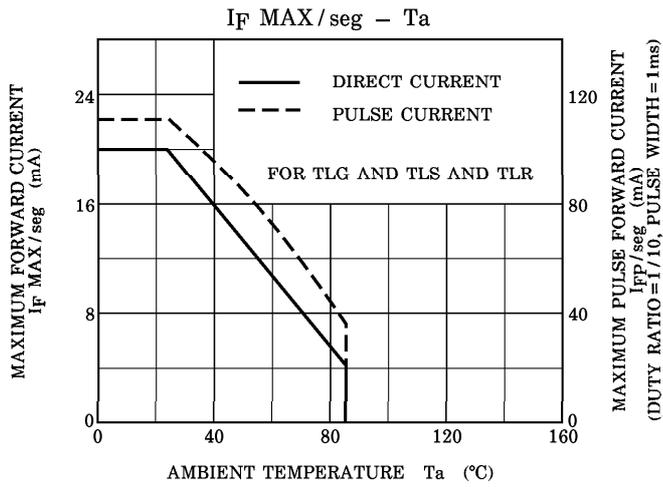
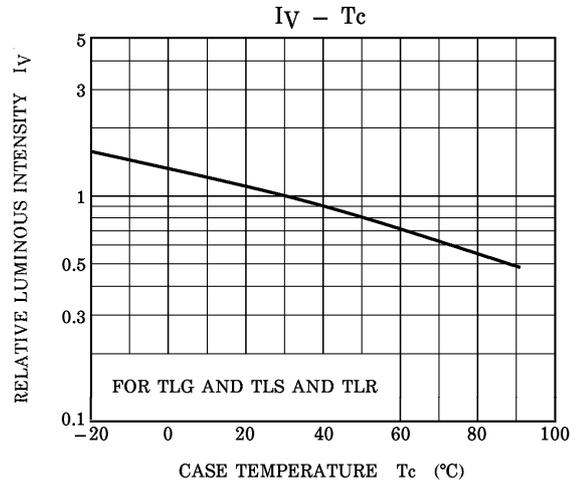
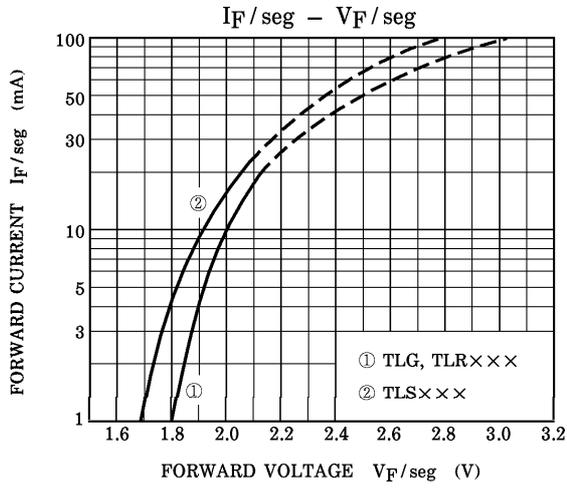
PRECAUTION

Please be careful of the following.

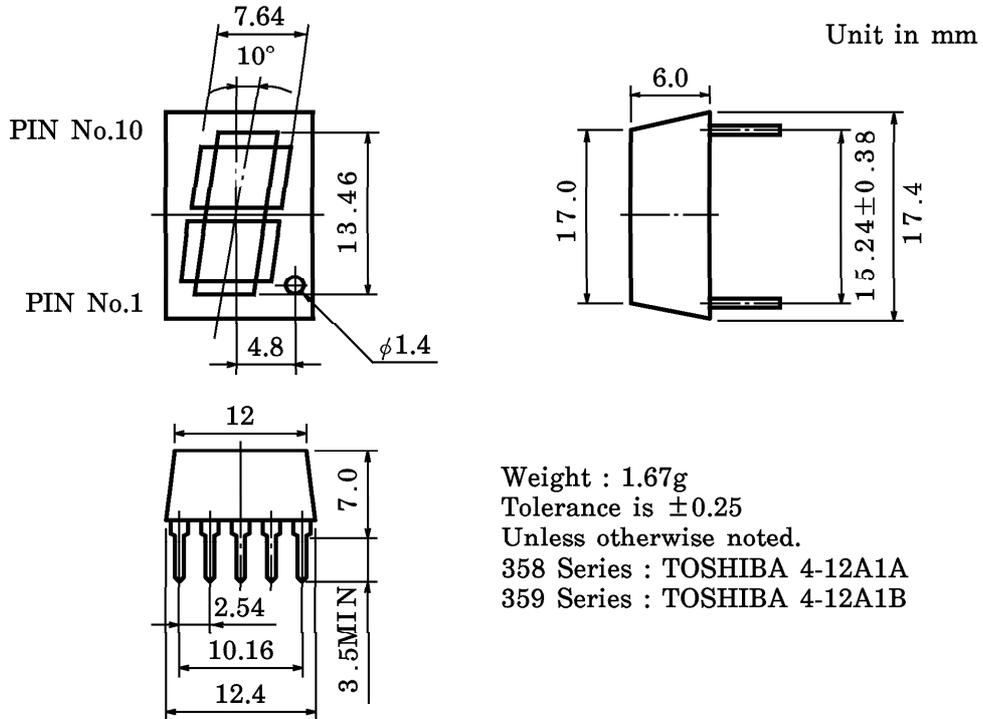
- Soldering temperature should be less than 260°C for 3 seconds at 2.0mm from the seating plane.

$I_V$ /seg -  $I_F$ /seg





OUTLINE DIMENSIONS



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		

**RESTRICTIONS ON PRODUCT USE**

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