

TOSHIBA LED DISPLAY

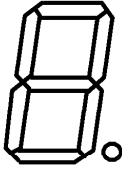
**TLG346S, TLG347S, TLS346S  
TLS347S, TLR346S, TLR347S**

- 10mm (0.4") 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□xxxS : Gray Color Coated Only on Surface.
  - TL□xxxT : Black Color Coated Only on Surface.

PRODUCT LINE UP

TLG346S / TLG347S	GaP GREEN
TLS346S / TLS347S	GaAsP RED
TLR346S / TLR347S	GaP RED

TYPE No. vs FULLY DISPLAY FONT

COMMON CATHODE	COMMON ANODE	FULLY DISPLAY FONT
TLG346S TLS346S TLR346S	TLG347S TLS347S TLR347S	

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>	-40~85	°C
Storage Temperature Range	T <sub>stg</sub>	-40~85	°C

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

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- Gallium arsenide (GaAs) is a substance used in the products described in this document. GaAs dust and fumes are toxic. Do not break, cut or pulverize the product, or use chemicals to dissolve them. When disposing of the products, follow the appropriate regulations. Do not dispose of the products with other industrial waste or with domestic garbage.
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ELECTRICAL-OPTICAL CHARACTERISTICS (Ta = 25°C)

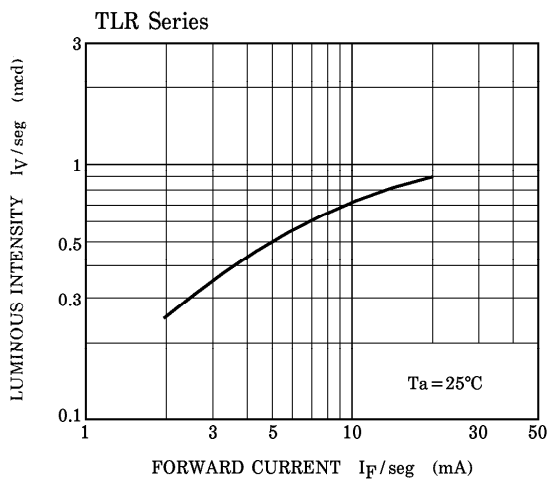
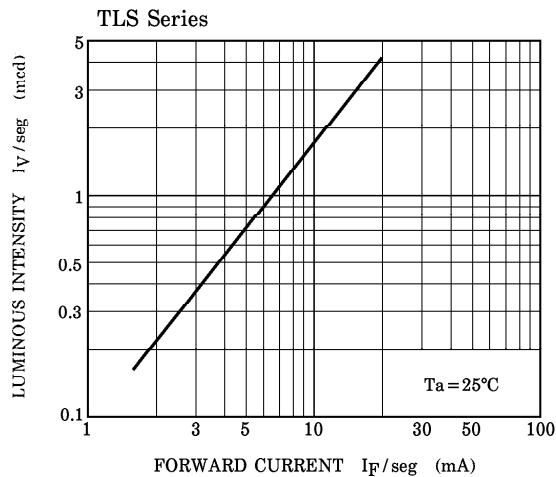
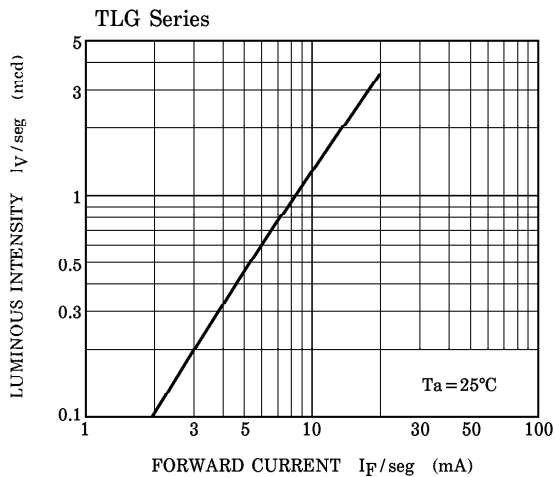
TYPE No.	EMITTING WAVE LENGTH			LUMINOUS INTENSITY I <sub>V</sub> /seg			FORWARD VOLTAGE V <sub>F</sub> /seg				REVERSE CURRENT I <sub>R</sub> /seg		LUMINOUS INTENSITY MATCHING RATIO I <sub>V-M</sub>	
	λ <sub>p</sub>	Δλ	I <sub>F</sub> /seg	Min.	Typ.	I <sub>F</sub> /seg	Min.	Typ.	Max.	I <sub>F</sub> /seg	Max.	V <sub>R</sub> /seg	Max.	I <sub>F</sub> /seg
TLG Series	565	30	10	0.54	1.22	10	1.7	2.0	2.5	10	5	6	2.3	10
TLS Series	635	40		0.72	1.64		1.7	1.9	2.5					
TLR Series	700	100		0.23	0.52	5	1.4	2.0	2.5					
UNIT	nm		mA	mcd		mA	V			mA	μA	V	—	mA

PRECAUTION

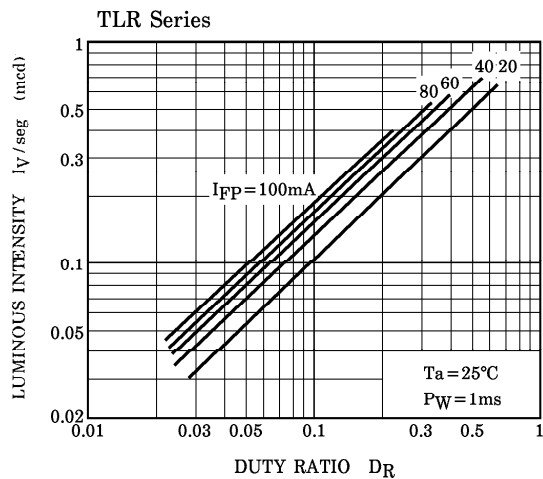
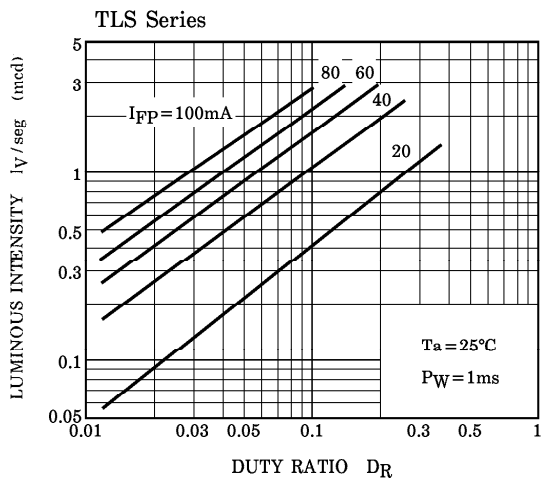
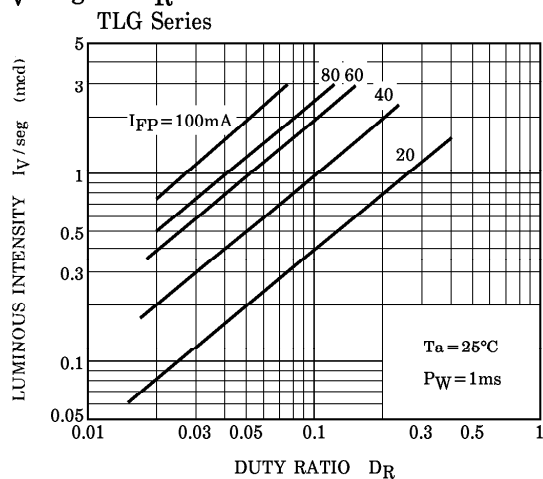
Please be careful of the following.

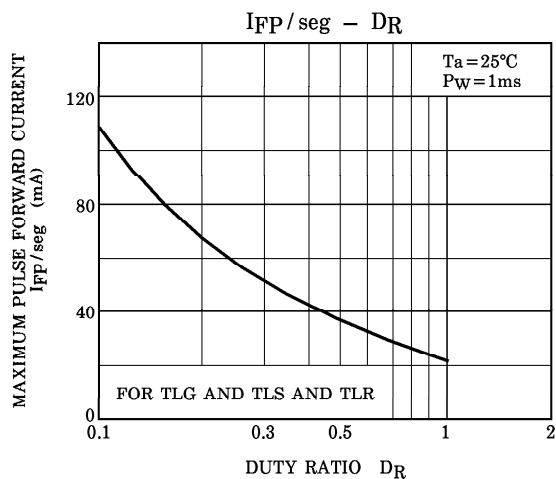
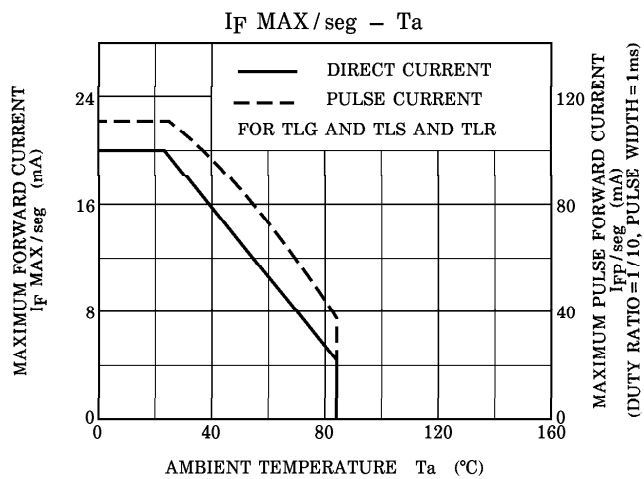
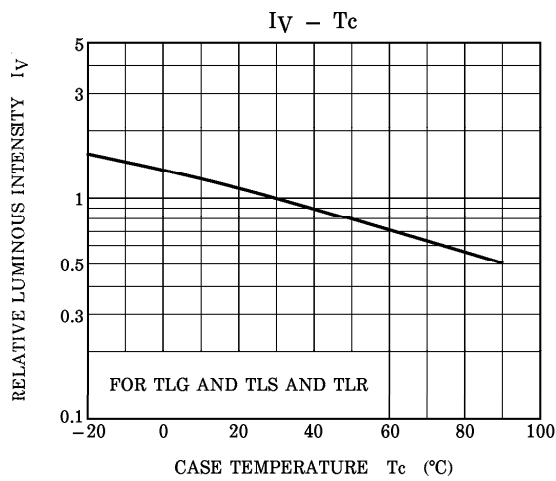
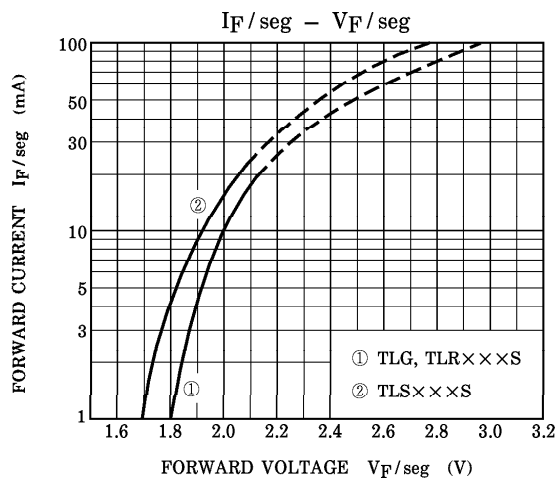
- Soldering temperature should be less than 260°C for 3 seconds at 2.0mm from the seating plane.

$I_V / \text{seg} - I_F$

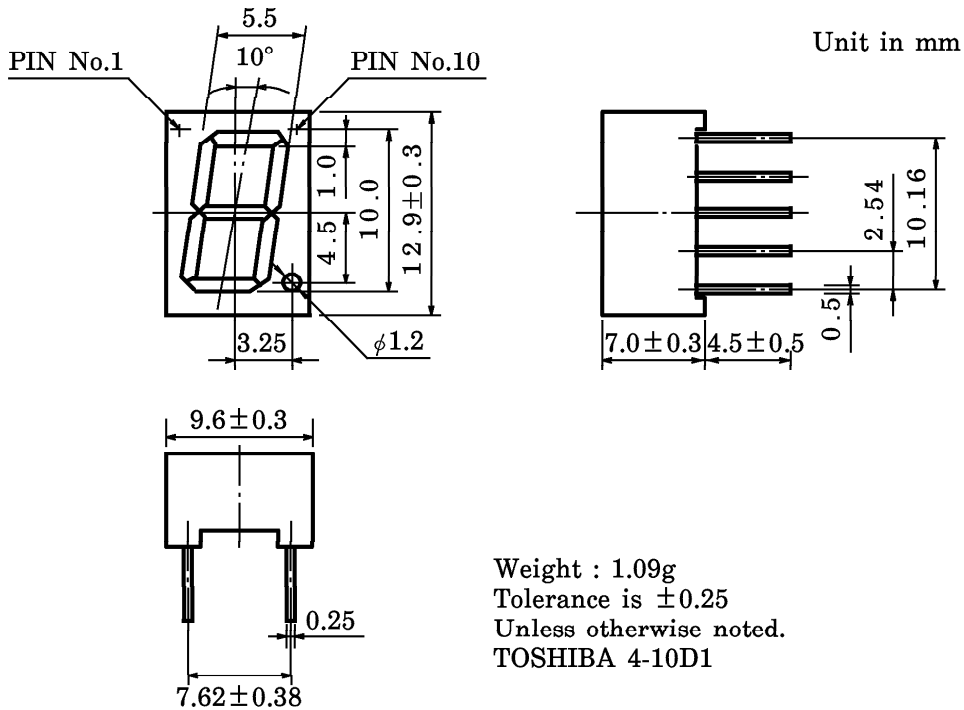


$I_V / \text{seg} - D_R$





OUTLINE DIMENSIONS



PIN CONNECTION

346S Series		347S Series	
PIN No.	CONNECTION	PIN No.	CONNECTION
1	Common Cathode	1	Common Anode
2	Anode F	2	Cathode F
3	Anode G	3	Cathode G
4	Anode E	4	Cathode E
5	Anode D	5	Cathode D
6	Common Cathode	6	Common Anode
7	Anode Dp (Right Hand)	7	Cathode Dp (Right Hand)
8	Anode C	8	Cathode C
9	Anode B	9	Cathode B
10	Anode A	10	Cathode A