

TOSHIBA LED DISPLAY

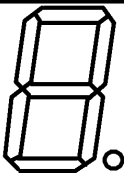
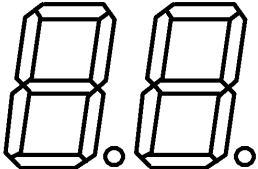
TLG362T, TLG363T, TLG366T, TLG367T
 TLS362T, TLS363T, TLS366T, TLS367T
 TLR362T, TLR363T, TLR366T, TLR367T

- 14.2mm (0.56") 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

TLG362T / TLG363T / TLG366T / TLG367T	GaP GREEN
TLS362T / TLS363T / TLS366T / TLS367T	GaAsP RED
TLR362T / TLR363T / TLR366T / TLR367T	GaP RED

TYPE No. vs FULLY DISPLAY

COMMON CATHODE	COMMON ANODE	FULLY DISPLAY FONT
TLG362T TLS362T TLR362T	TLG363T TLS363T TLR363T	
TLG366T TLS366T TLR366T	TLG367T TLS367T TLR367T	

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}	-40~85	°C
Storage Temperature Range	T _{stg}	-40~85	°C

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

ELECTRICAL-OPTICAL CHARACTERISTICS (Ta = 25°C)

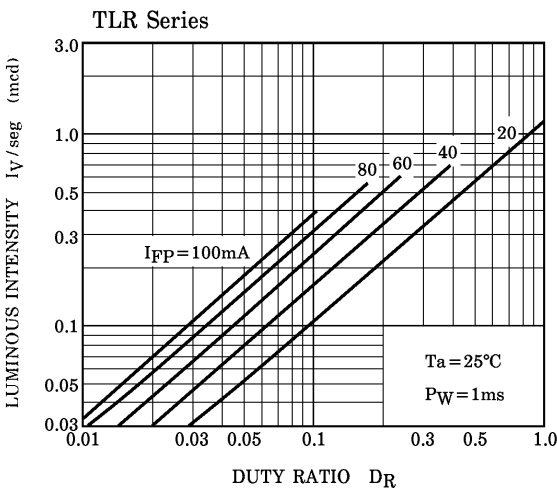
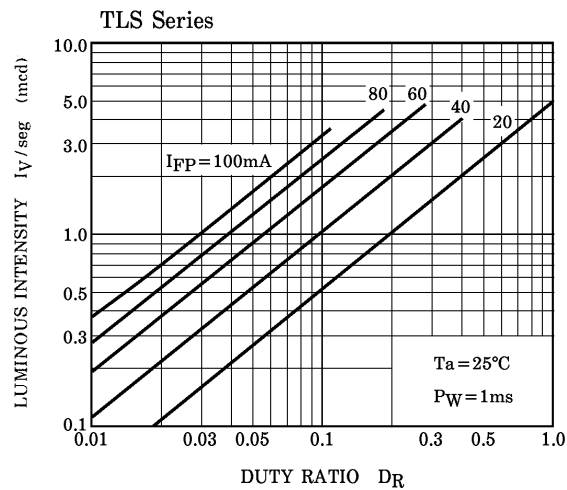
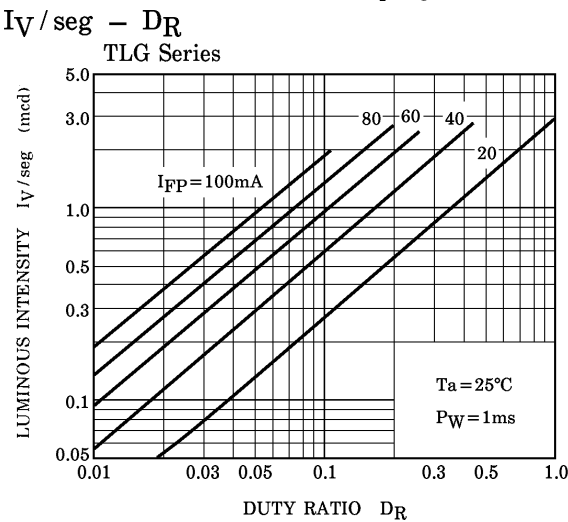
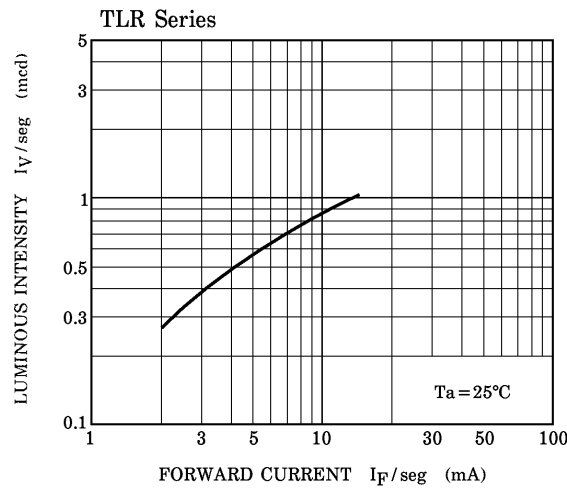
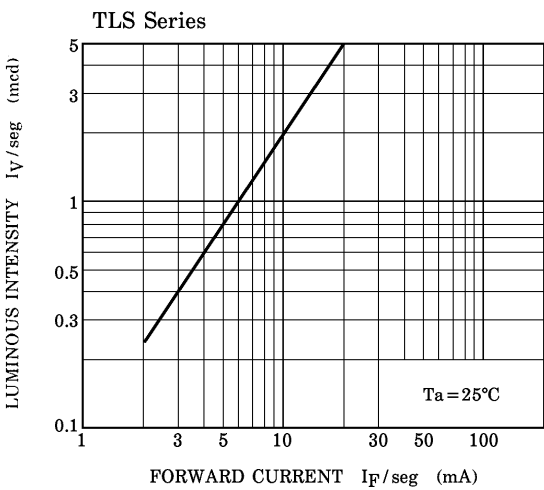
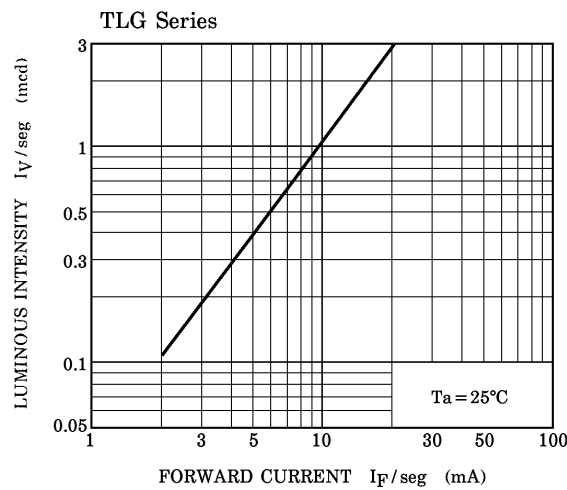
TYPE No.	EMITTING WAVE LENGTH			LUMINOUS INTENSITY I _V / seg			FORWARD VOLTAGE V _F / seg				REVERSE CURRENT I _R / seg		LUMINOUS INTENSITY MATCHING RATIO I _{V-M}	
	λ _p	Δλ	I _F /seg	Min.	Typ.	I _F /seg	Min.	Typ.	Max.	I _F /seg	Max.	V _R /seg	Max.	I _F /seg
TLG Series	565	30	10	0.44	1.00	10	1.7	2.0	2.5	10	5	6	2.3	10
TLS Series	635	40		0.83	2.00		1.7	1.9	2.5					
TLR Series	700	100		0.21	0.56	5	1.4	2.0	2.5					5
UNIT	nm		mA	mcd		mA	V			mA	μA	V	—	mA

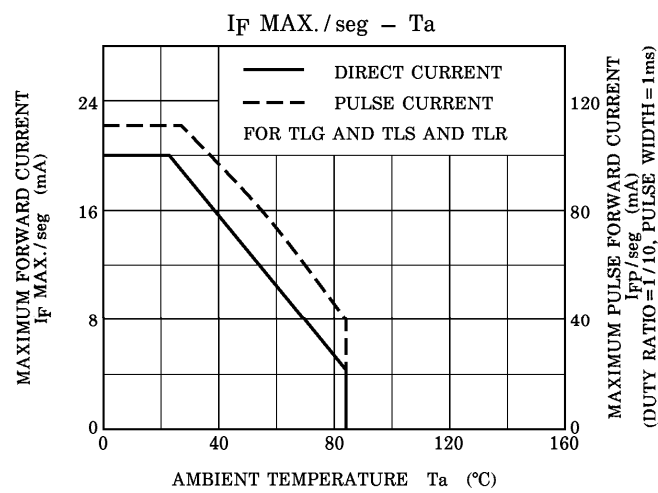
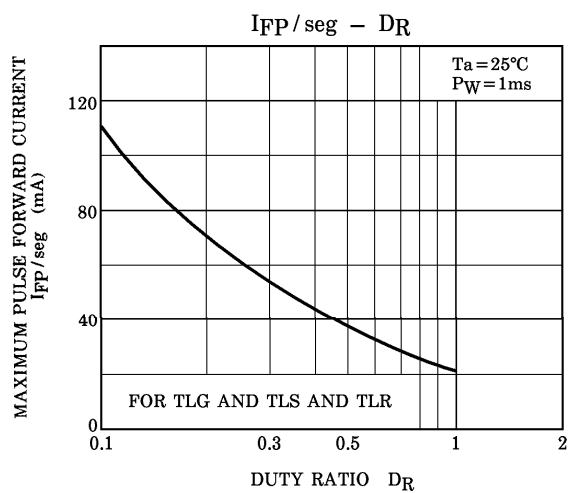
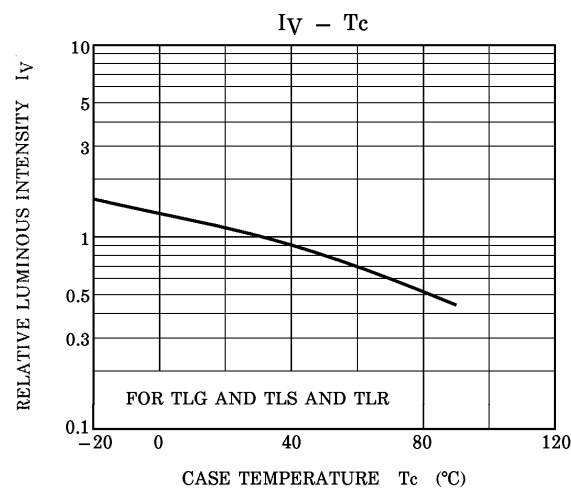
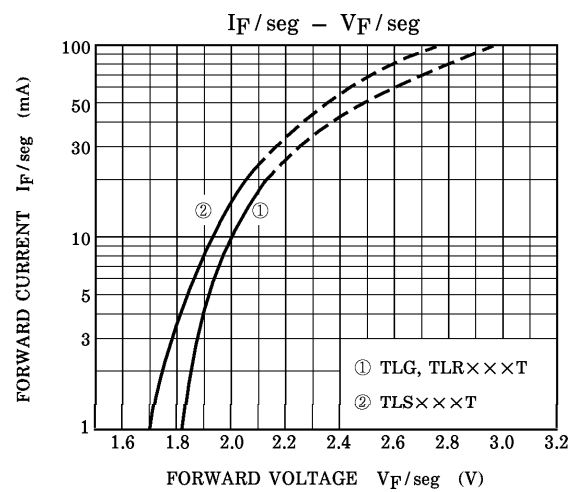
PRECAUTION

Please be careful of the following.

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

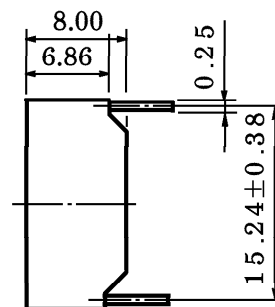
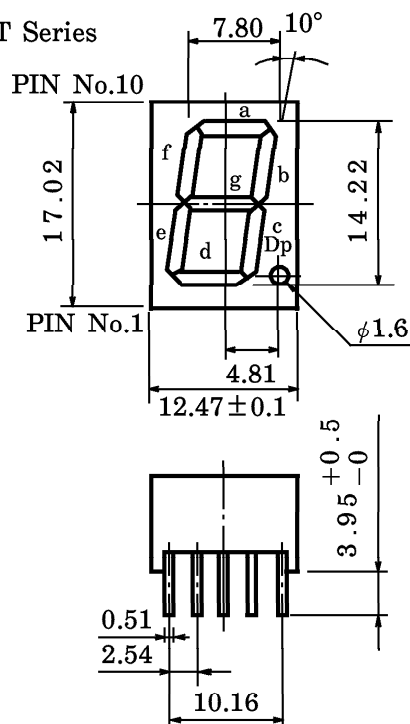
$I_V/\text{seg} - I_F/\text{seg}$





OUTLINE DIMENSIONS

362T, 363T Series



Unit in mm

Tolerance is ± 0.25

Unless otherwise noted

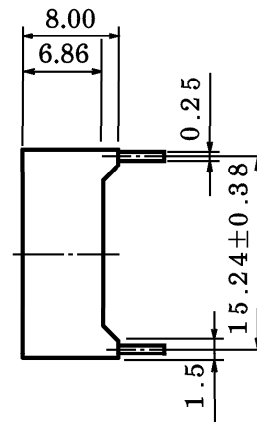
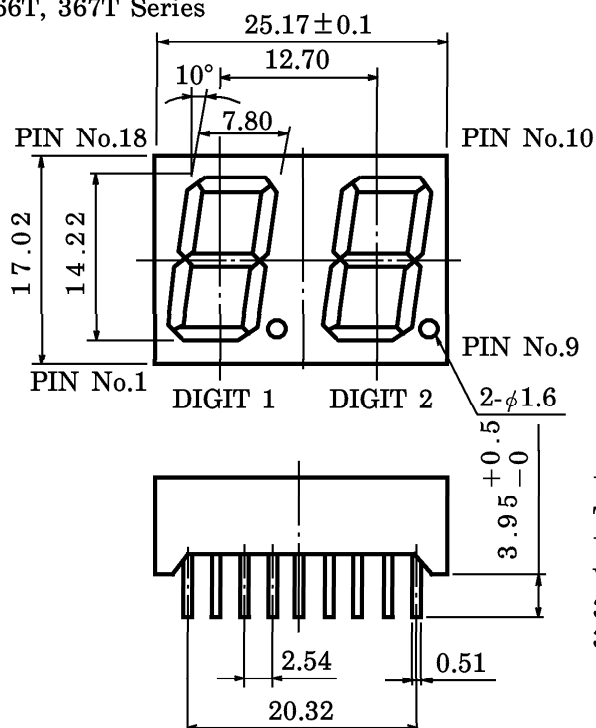
Weight : 1.71g

362T Series : TOSHIBA 4-12B1B

363T Series : TOSHIBA 4-12B1A

OUTLINE DIMENSIONS

366T, 367T Series



Unit in mm

Tolerance is ± 0.25

Unless otherwise noted

Weight : 3.66g

366T Series : TOSHIBA 4-25C1A

367T Series : TOSHIBA 4-25C1B

PIN CONNECTION

PIN No.	CONNECTION		
	362T Series	363T Series	366T, 367T Series
1	e	e	E Digit 1
2	d	d	D Digit 1
3	Common Cathode	Common Anode	C Digit 1
4	c	c	Dp Digit 1
5	Dp	Dp	E Digit 2
6	b	b	D Digit 2
7	a	a	G Digit 2
8	Common Cathode	Common Anode	C Digit 2
9	f	f	Dp Digit 2
10	g	g	B Digit 2
11	—	—	A Digit 2
12	—	—	F Digit 2
13	—	—	Digit 2 Common
14	—	—	Digit 1 Common
15	—	—	B Digit 1
16	—	—	A Digit 1
17	—	—	G Digit 1
18	—	—	F Digit 1

362T Series	363T Series	367T Series	

366T Series	

RESTRICTIONS ON PRODUCT USE

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- TOSHIBA is continually working to improve the quality and reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to comply with the standards of safety in making a safe design for the entire system, and to avoid situations in which a malfunction or failure of such TOSHIBA products could cause loss of human life, bodily injury or damage to property. In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent TOSHIBA products specifications. Also, please keep in mind the precautions and conditions set forth in the "Handling Guide for Semiconductor Devices," or "TOSHIBA Semiconductor Reliability Handbook" etc..
- The TOSHIBA products listed in this document are intended for usage in general electronics applications (computer, personal equipment, office equipment, measuring equipment, industrial robotics, domestic appliances, etc.). These TOSHIBA products are neither intended nor warranted for usage in equipment that requires extraordinarily high quality and/or reliability or a malfunction or failure of which may cause loss of human life or bodily injury ("Unintended Usage"). Unintended Usage include atomic energy control instruments, airplane or spaceship instruments, transportation instruments, traffic signal instruments, combustion control instruments, medical instruments, all types of safety devices, etc.. Unintended Usage of TOSHIBA products listed in this document shall be made at the customer's own risk.
- 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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