

TOSHIBA LED DISPLAY

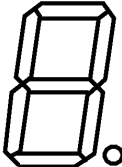
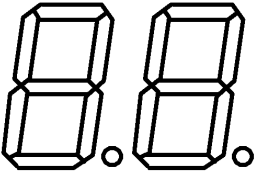
TLG362S, TLG363S, TLG366S, TLG367S
TLS362S, TLS363S, TLS366S, TLS367S
TLR362S, TLR363S, TLR366S, TLR367S

- 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

TLG362S / TLG363S / TLG366S / TLG367S	GaP GREEN
TLS362S / TLS363S / TLS366S / TLS367S	GaAsP RED
TLR362S / TLR363S / TLR366S / TLR367S	GaP RED

TYPE No. vs FULLY DISPLAY FONT

COMMON CATHODE	COMMON ANODE	FULLY DISPLAY FONT
TLG362S TLS362S TLR362S	TLG363S TLS363S TLR363S	
TLG366S TLS366S TLR366S	TLG367S TLS367S TLR367S	

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)

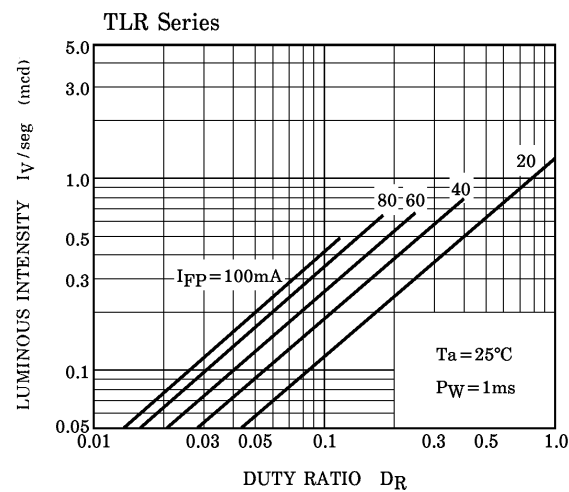
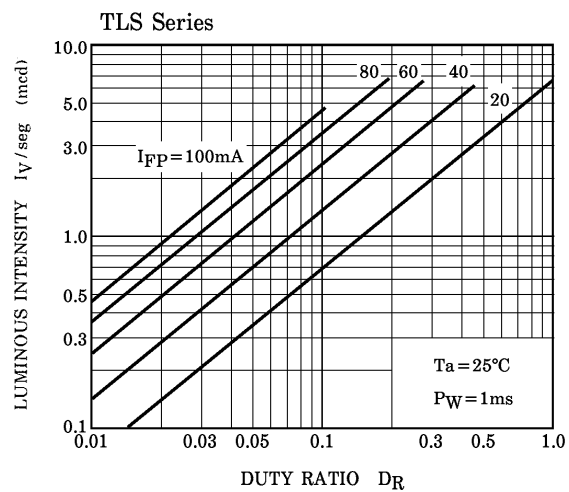
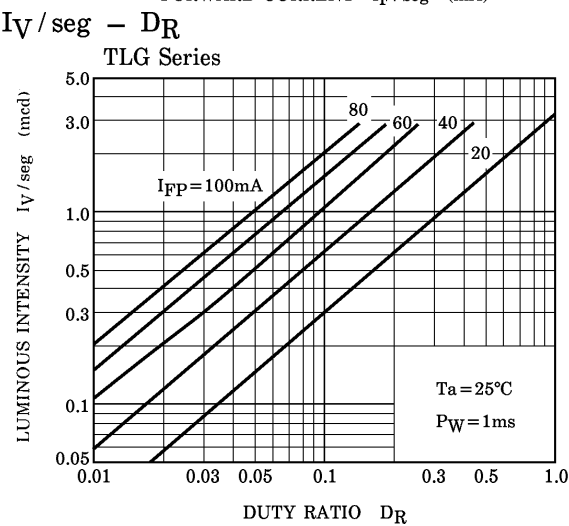
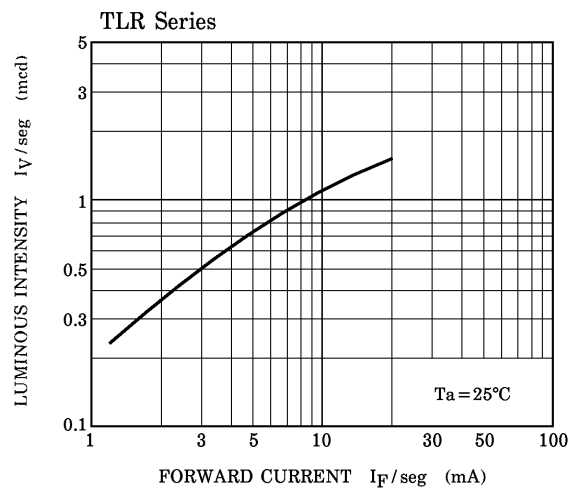
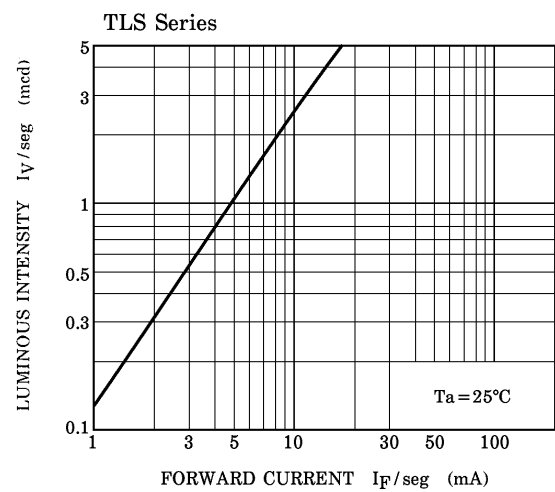
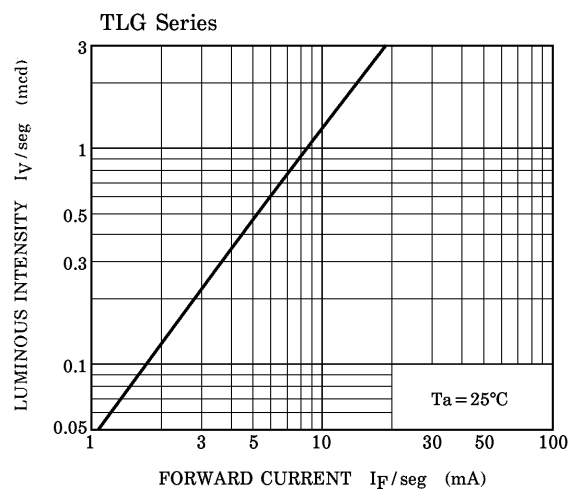
TYPE No.	EMITTING WAVE LENGTH			LUMINOUS INTENSITY I _V / seg			FORWARD VOLTAGE V _F / seg				REVERSE CURRENT I _R / seg		LUMINOUS INTENSITY MATCHING RATIO I _{V-M}	
	λ _p	Δλ	I _F /seg	Min.	Typ.	I _F /seg	Min.	Typ.	Max.	I _F /seg	Max.	V _R /seg	Max.	I _F /seg
TLG Series	565	30	10	0.56	1.25	10	1.7	2.0	2.5	10	5	6	2.3	10
TLS Series	635	40		1.03	2.60		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

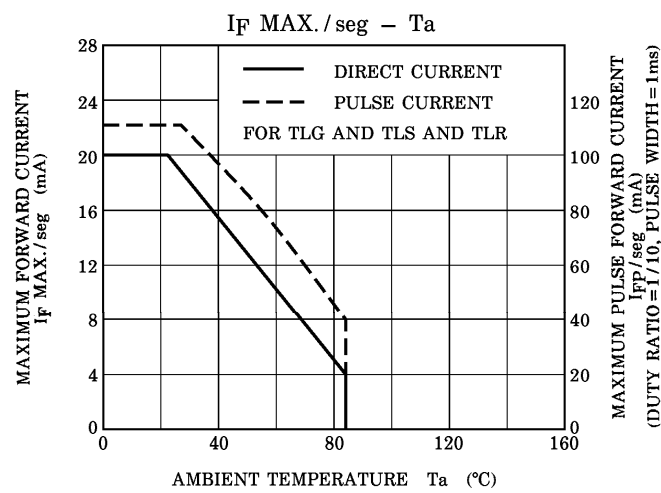
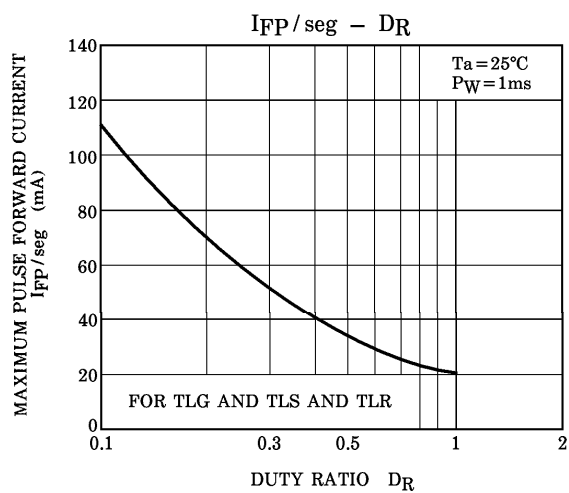
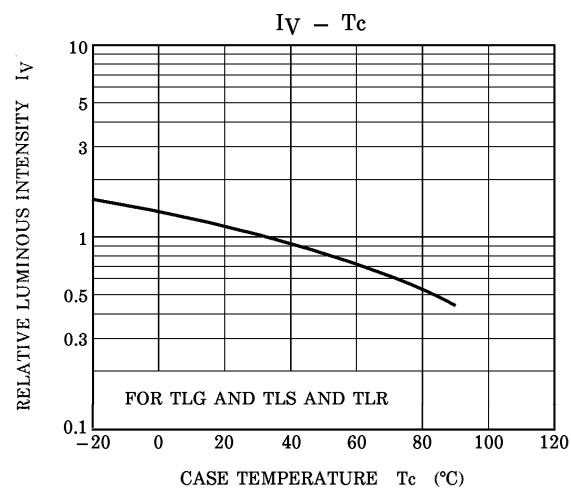
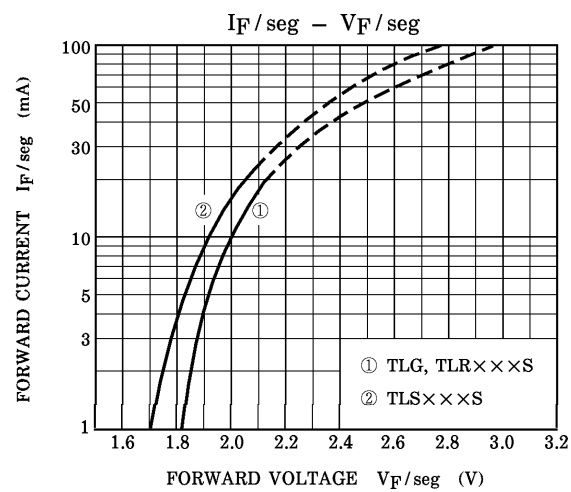
PRECAUTION

Please be careful of the following.

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

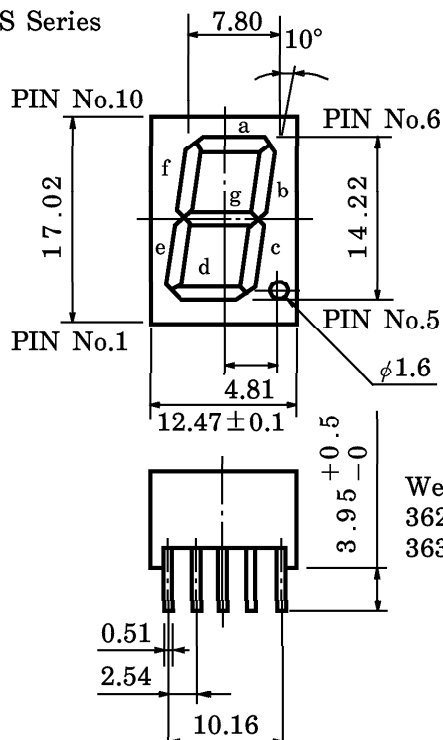
$I_V/\text{seg} - I_F$



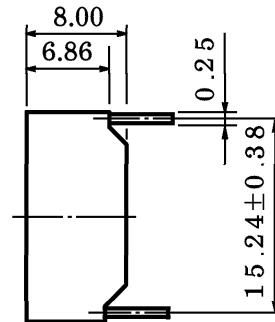


OUTLINE DIMENSION

362S, 363S Series

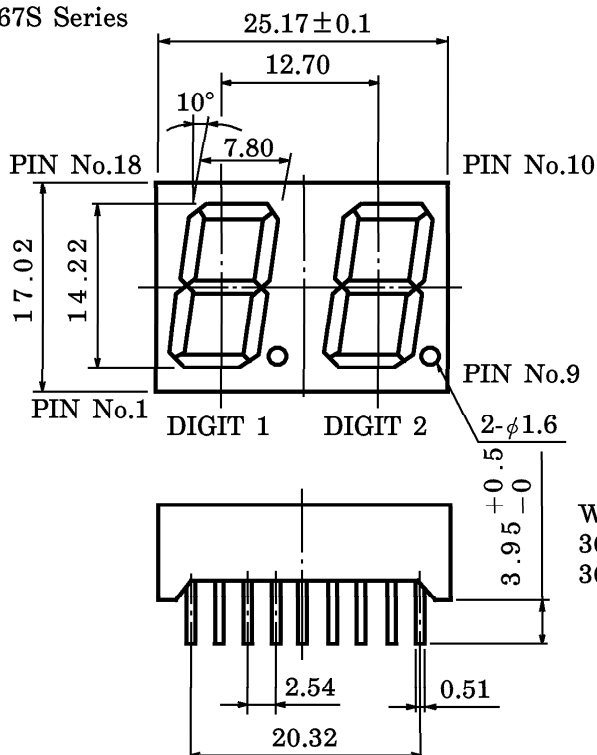


Unit in mm
Tolerance is ± 0.25
Unless otherwise noted

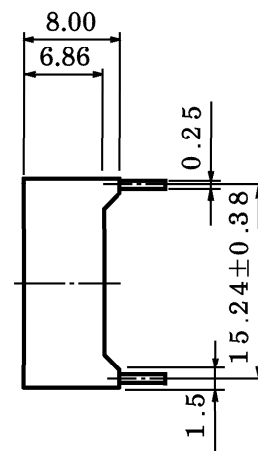


Weight : 1.71g
362S Series : TOSHIBA 4-12B1B
363S Series : TOSHIBA 4-12B1A

366S, 367S Series



Weight : 3.66g
366S Series : TOSHIBA 4-25C1A
367S Series : TOSHIBA 4-25C1B



PIN CONNECTION

PIN No.	CONNECTION		
	362S Series	363S Series	366S, 367S 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

362S Series	363S Series	367S Series	
366S Series			

RESTRICTIONS ON PRODUCT USE

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- 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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