TOSHIBA LED DISPLAY

TLG306, TLG307, TLG308, TLG309 TLR306, TLR307, TLR308, TLR309

- 15mm Character Height Numerical and Polarity Display.
- Application: Numerical Readout for Instrument and Consumer Product.
- Luminous Intensity Ranking Performed Uniform Display.

PRODUCT LINE UP

TLG306/TLG307/TLG308/TLG309	GaP GREEN
TLR306/TLR307/TLR308/TLR309	GaP RED

TYPE No. vs FULLY DISPLAY FONT

COMMON CATHODE	COMMON ANODE	FULLY DISPLAY FONT
TLG308 TLR308	TLG306 TLR306	
TLG309 TLR309	TLG307 TLR307	#

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RAT	UNIT		
CHARACTERISTIC	SIMBOL	TLGxxxA	TLRxxx	ONII	
DC Forward Current/seg.	I _F (DC) / seg	20	35	mA	
Pulse Forward Current/seg.(Note)	IFP/seg	90	90	mA	
Reverse Voltage/seg.	v_{R}	6	3	V	
Operating Temperature Range	Topr	-30	~75	°C	
Storage Temperature Range	$\mathrm{T_{stg}}$	-30	~90_	°C	

Note: Pulse Width=1ms, Duty Ratio=1/10 ELECTRICAL-OPTICAL CHARACTERISTICS (Ta = 25°C)

TYPE NO		MITTI E LEI	NG NGTH	LUMINOUS INTENSITY IV/seg		FORWARD VOLTAGE V _F /seg			REVERSE CURRENT I _R /seg		LUMINOUS INTENSITY MATCHING RATIO IV-M			
 	$\lambda_{\mathbf{p}}$	Δλ	I _F /seg	Min.	Тур.	I _F /seg	Min.	Тур.	Max.	I _F /seg	Max.	V _R /seg	Max.	I _F /seg
TLG Series	565	30	10	0.09	0.30	10	1.8	2.0	2.5	10	-	6	2.3	5
TLR Series	700	100	10	0.21	0.30	10	1.8	2.0	2.8	10	5	3		
UNIT	n	m	mA	m	cd	mA		v		mA	μ A	v	1	mA

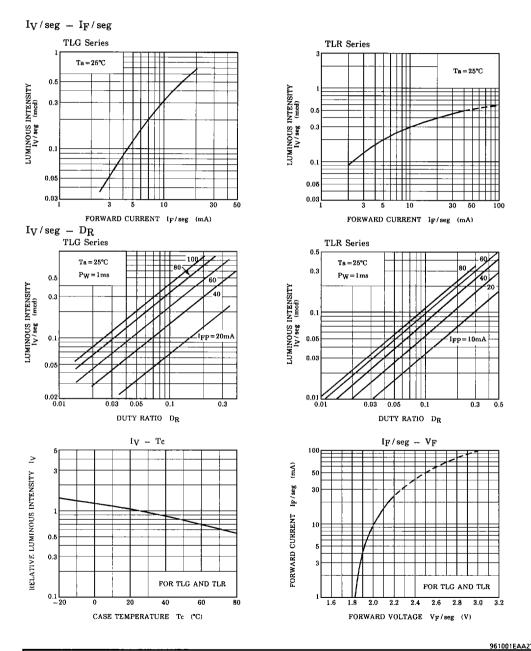
PRECAUTION

Please be careful of the following.

- Soldering temperature should be less than 260°C for 7s at 1.5mm from the seating plane.
- With the case-type LED display, cleaning all over may cause cracks in the case.

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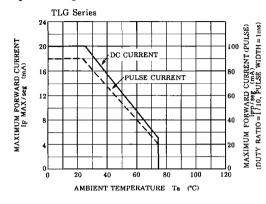
[●] TOSHIBA is continually working to improve the quality and the reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to observe standards of safety, and to avoid situations in which a malfunction or failure of a TOSHIBA product 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 products specifications. Also, please keep in mind the precautions and conditions set forth in the TOSHIBA Semiconductor Reliability Handbook.

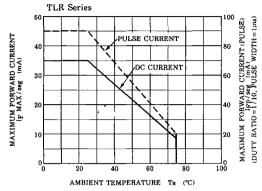


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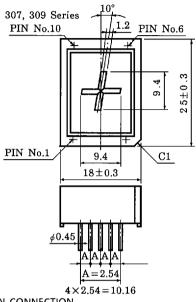
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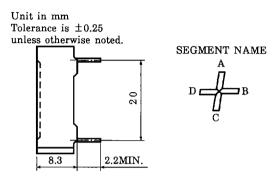






OUTLINE DIMENSIONS



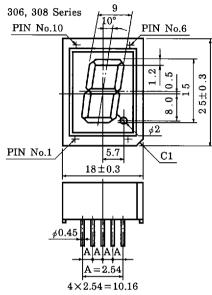


Weight: 4.2g 307 Series: TOSHIBA 4-18A1C 309 Series: TOSHIBA 4-18A1D

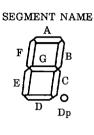
PIN CONNECTION

PIN CONNECTION	JIV					
	307 Series		309 Series			
	5 10		1 2 3 4 6 7 8 9			
PIN No.	CONNECTION	PIN No.	CONNECTION			
1	Cathode c	1	Anode c			
2	Cathode c	2	Anode c			
3	Cathode b	3	Anode b			
4	Cathode b	4	Anode b			
5	Common Anode	5	Common Cathode			
6	Cathode a	6	Anode a			
7	Cathode a	7	Anode a			
8	Cathode d	8	Anode d			
9	Cathode d	9	Anode d			
10	Common Anode	10	Common Cathode			

OUTLINE DIMENSIONS



Unit in mm Tolerance is ±0.25 unless otherwise noted. 20 8.3 2.2MIN.



Weight: 4.2g 306 Series: TOSHIBA 4-18A1A 308 Series: TOSHIBA 4-18A1B

PIN CONNECTION

	306 Series	308 Series			
	5 10		1 2 3 4 6 7 8 9		
PIN No.	CONNECTION	PIN No.	CONNECTION		
1	Cathode e	1	Anode e		
2	Cathode d	2	Anode d		
3	Cathode c	3	Anode c		
4	Cathode Dp	4	Anode Dp		
5	Common Anode	5	Common Cathode		
6	Cathode b	6	Anode b		
7	Cathode a	7	Anode a		
8	Cathode g	8	Anode g		
9	Cathode f	9	Anode f		
10	Common Anode	10	Common Cathode		