

TOSHIBA LED DISPLAY

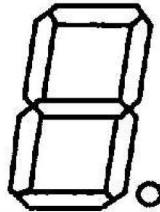
TLG312A, TLR313A, TLG314A, TLG315A TLR312, TLR313, TLR314, TLR315

- 8.3mm Character Height Numerical and with Polarity Display.
- Application : Numerical Readout for Instrument and Consumer Product.
- Luminous Intensity Ranking Performed Uniform Display.

PRODUCT LINE UP

TLG312A / TLG313A / TLG314A / TLG315A	GaP GREEN
TLR312 / TLR313 / TLR314 / TLR315	GaP RED

TYPE No. vs FULLY DISPLAY FONT

COMMON CATHODE	COMMON ANODE	FULLY DISPLAY FONT
TLG312A TLR312	TLG313A TLR313	

MAXIMUM RATINGS (Ta = 25°C)

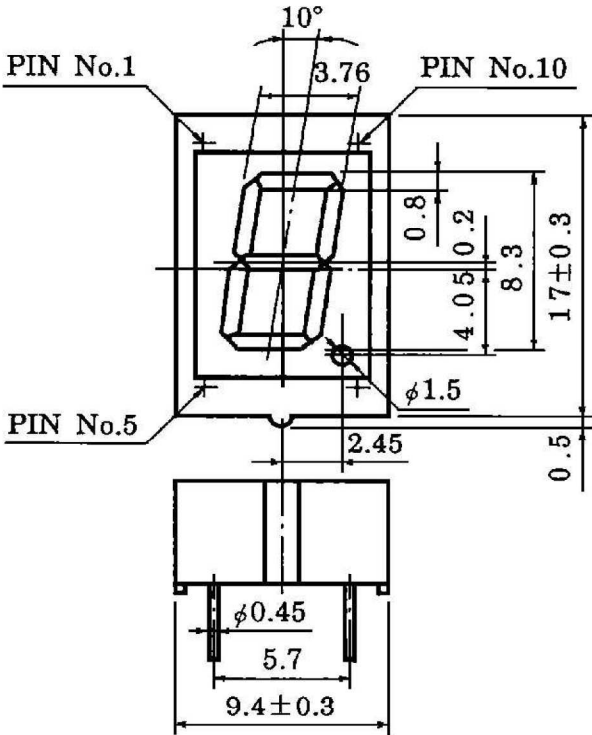
CHARACTERISTIC	SYMBOL	RATING		UNIT
		TLGxxxA	TLRxxx	
DC Forward Current / seg.	I _F (DC) / seg	20	15	mA
Pulse Forward Current / seg. (Note)	I _{FP} / seg	150	80	mA
Reverse Voltage / seg.	V _R	6	3	V
Operating Temperature Range	T _{opr}	-20~75	-20~75	°C
Storage Temperature Range	T _{stg}	-30~80	-30~80	°C

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

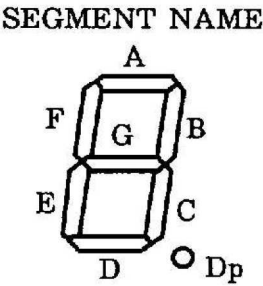
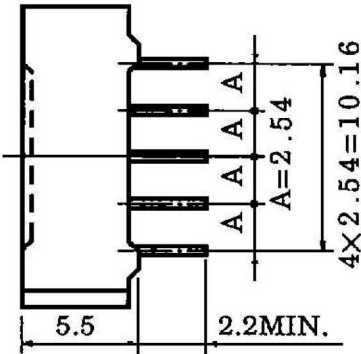
ELECTRICAL-OPTICAL CHARACTERISTICS (Ta = 25°C)

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	0.13	0.14	10	1.8	2.0	2.5	10	5	6	2.3	5
TLR Series	700	100		0.14	0.29	5	1.8	2.1	2.4	15		3	—	—
UNIT	nm		mA	mcd		mA	V		mA		μA	V	—	mA

OUTLINE DIMENSIONS



Unit in mm
1. Tolerance is ± 0.25 unless otherwise noted.



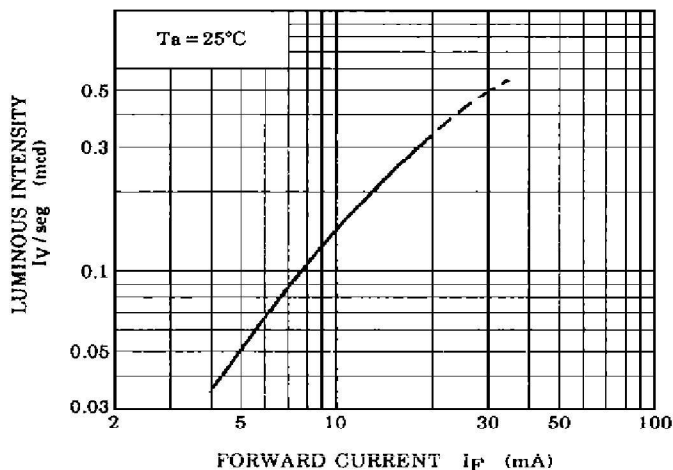
Weight : 0.95g
312A Series : TOSHIBA 4-9B1B
313A Series : TOSHIBA 4-9B1A

PIN CONNECTION

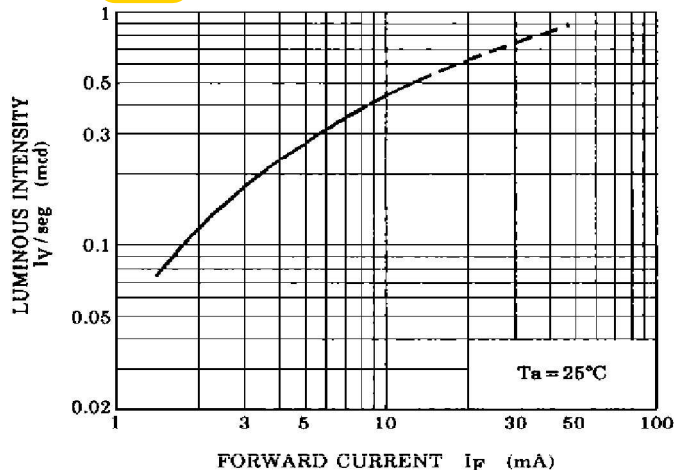
312, 312A Series		313, 313A Series	
PIN No.	CONNECTION	PIN No.	CONNECTION
1	Anode a	1	Cathode a
2	Anode f	2	Cathode f
3	Anode e	3	Cathode e
4	Anode d	4	Cathode d
5	Common Cathode	5	Common Anode
6	Anode c	6	Cathode c
7	Anode Dp	7	Cathode Dp
8	Anode g	8	Cathode g
9	Anode b	9	Cathode b
10	Common Cathode	10	Common Anode

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

TLG Series

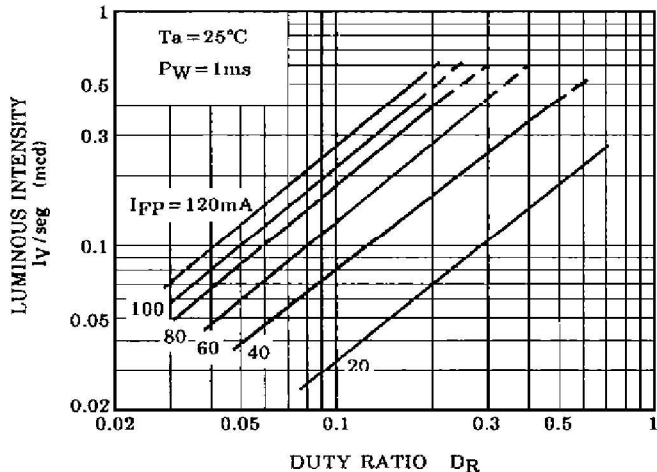


TLR Series

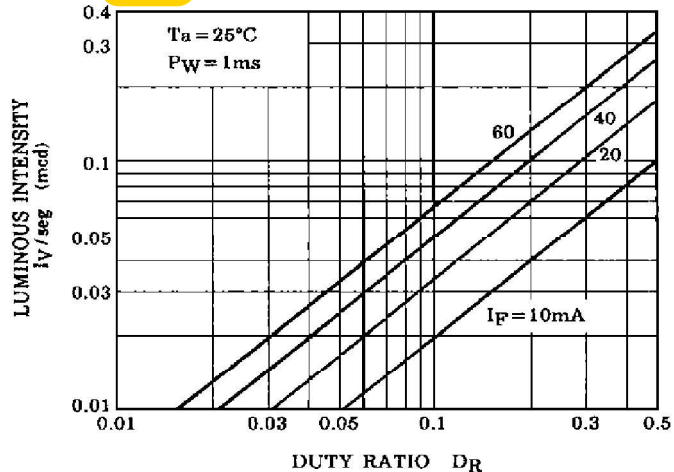


$I_V/\text{seg} - D_R$

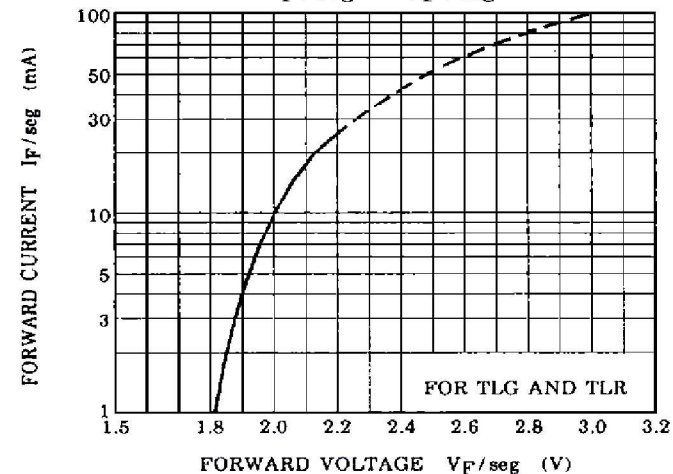
TLG Series



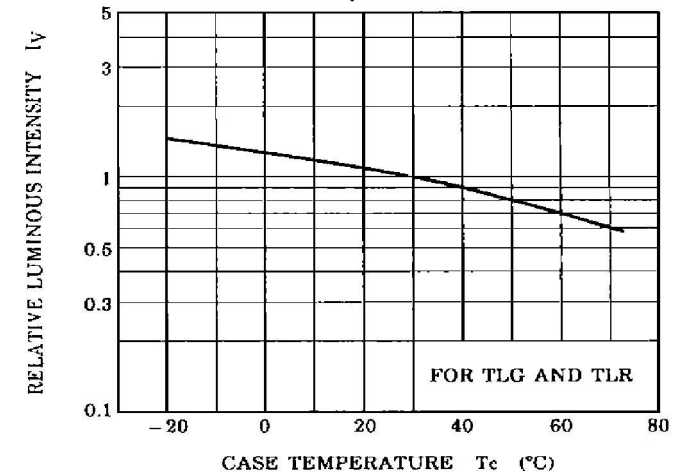
TLR Series



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

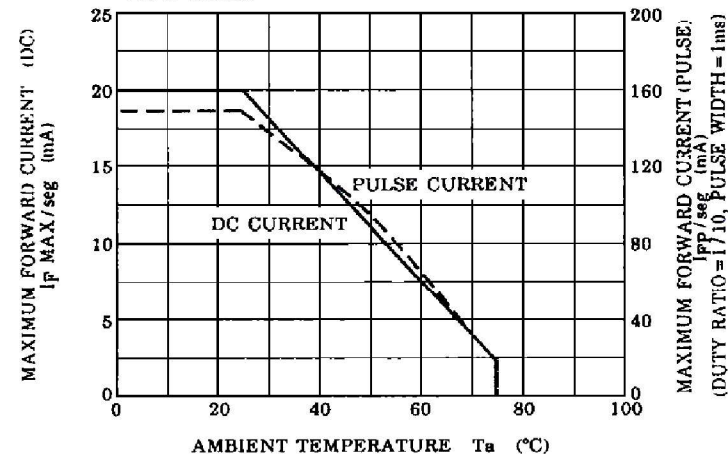


$I_V - T_c$



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

TLG Series



TLR Series

