

TOSHIBA LED LAMP

TLG181P, TLG182P, TLO181P, TLO182P, TLPG181P, TLPG182P
 TLR181P, TLR182P, TLRC181P, TLRC182P, TLY181P, TLY182P
 TLUR181P, TLUR182P, TLY181P, TLY182P

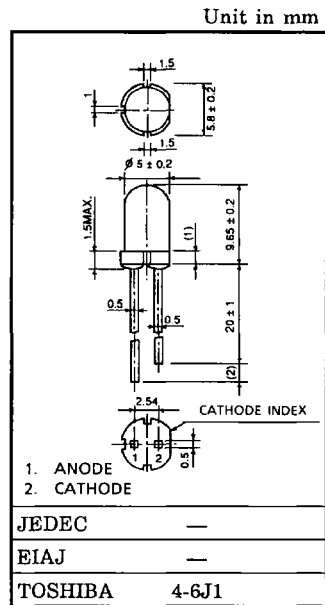
- Oval Lens, Ideal for Light Output
- Fast Response Time, Capable of Pulse Operation
- Eight Colors
- Pastel Colored Lens
 - 181P : Light Colored Transparent Lens
 - 182P : Light Colored Diffused Lens
- Without stand-offs

APPLICATION

- Indoor / Outdoor displays
- Low Current Drive Light Source
- Automotive use
- Safety equipment

MATERIALS

PRODUCT NAME	MATERIALS	LIGHT EMITTING COLOR
TLPG181P / TLPG182P	GaP	Pure Green
TLG181P / TLG182P	GaP	Green
TLY181P / TLY182P	GaAsP	Yellow
TLO181P / TLO182P	GaAsP	Orange
TLS181P / TLS182P	GaAsP	Red
TLUR181P / TLUR182P	GaAlAs	
TLRC181P / TLRC182P	GaAlAs	
TLR181P / TLR182P	GaP	



Weight : 0.31g

MAXIMUM RATINGS (Ta = 25°C)

PRODUCT NAME	FORWARD CURRENT I _F (mA)	REVERSE VOLTAGE V _R (V)	POWER DISSIPATION P _D (mW)	OPERATING TEMPERATURE RANGE T _{opr} (°C)	STORAGE TEMPERATURE RANGE T _{stg} (°C)
TLPG181P / TLPG182P	25	4	70	-20~75	-30~100
TLG181P / TLG182P	25	4	70	-20~75	-30~100
TLY181P / TLY182P	25	4	70	-20~75	-30~100
TLO181P / TLO182P	25	4	70	-20~75	-30~100
TLS181P / TLS182P	25	4	70	-20~75	-30~100
TLUR181P / TLUR182P	25	4	55	-20~75	-30~100
TLRC181P / TLRC182P	25	4	55	-20~75	-30~100
TLR181P / TLR182P	25	4	70	-20~75	-30~100

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ELECTRO-OPTICAL CHARACTERISTICS
181P SERIES (Colored transparent lens)

PRODUCT NAME	EMISSION SPECTRUM			LUMINOUS INTENSITY I_V			FORWARD VOLTAGE V_F			REVERSE CURRENT I_R	
	λ_p	$\Delta\lambda$	I_F	MIN.	TYP.	I_F	TYP.	MAX.	I_F	MAX.	V_R
TLPG181P	555	20	20	27	100	20	2.15	2.8	20	100	4
TLG181P	565	25	20	48	200	20	2.15	2.8	20	100	4
TLY181P	585	32	20	48	150	20	2.05	2.8	20	100	4
TLO181P	610	35	20	48	150	20	2.05	2.8	20	100	4
TLS181P	635	40	20	48	150	20	2.05	2.8	20	100	4
TLUR181P	660	25	20	85	250	20	1.75	2.2	20	100	4
TLRC181P	660	25	20	85	600	20	1.75	2.2	20	100	4
TLR181P	700	100	20	15	50	20	2.15	2.8	20	1	4
Unit	nm		mA	mcd		mA	V		mA	μ A	V

182P SERIES (Colored transparent lens)

PRODUCT NAME	EMISSION SPECTRUM			LUMINOUS INTENSITY I_V			FORWARD VOLTAGE V_F			REVERSE CURRENT I_R	
	λ_p	$\Delta\lambda$	I_F	MIN.	TYP.	I_F	TYP.	MAX.	I_F	MAX.	V_R
TLPG181P	555	20	20	15	60	20	2.15	2.8	20	100	4
TLG181P	565	25	20	27	120	20	2.15	2.8	20	100	4
TLY181P	585	32	20	27	90	20	2.05	2.8	20	100	4
TLO181P	610	35	20	27	90	20	2.05	2.8	20	100	4
TLS181P	635	40	20	27	90	20	2.05	2.8	20	100	4
TLUR181P	660	25	20	48	150	20	1.75	2.2	20	100	4
TLRC181P	660	25	20	48	350	20	1.75	2.2	20	100	4
TLR181P	700	100	20	9	25	20	2.15	2.8	20	1	4
Unit	nm		mA	mcd		mA	V		mA	μ A	V

PRECAUTION

Please be careful of the followings.

- Soldering temperature : 260°C MAX. Soldering time : 3s MAX.
(Soldering portion of lead : up to 2mm from the body of the device)
- If the lead is formed, the lead should be formed at up to 5mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.
- The TLRC series should not be used in high-temperature, high-humidity environments.

I_v - I_f

