

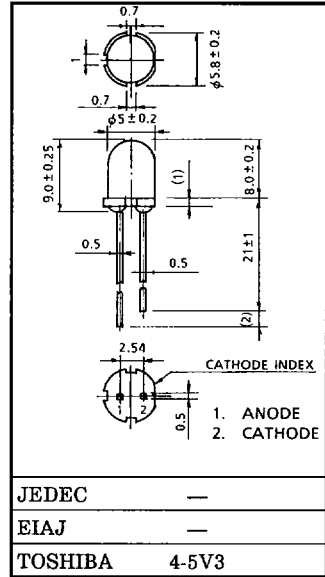
TOSHIBA LED LAMP

**TLG133AP, TLG134AP, TLO133AP, TLO134AP, TLPG133AP  
 TLPG134AP, TLR133AP, TLR134AP, TLS133AP, TLS134AP  
 TLR133AP, TLR134AP, TLY133AP, TLY134AP**

PANEL CIRCUIT INDICATOR

Unit in mm

- All Plastic Mold Type  
 TL□ 133AP : Colored Transparent Lens  
 TL□ 134AP : Colored Diffused Lens
- High Intensity & Moderate Radiation Angle  
 Half Angle = ±15 deg. (Typ.) (Limits for 50% of I<sub>f</sub>)  
 Recommended Forward Current : I<sub>f</sub> = 15~20mA (DC)
- Fast Response Time, Capable of Pulse Operation.
- Without stand-offs



Weight : 0.33g

MATERIALS

PRODUCT NAME	MATERIALS	LIGHT EMITTING COLOR
TLPG133AP/TLPG134AP	GaP	Pure Green
TLG133AP/TLG134AP	GaP	Green
TLY133AP/TLY134AP	GaAsP	Yellow
TLO133AP/TLO134AP	GaAsP	Orange
TLS133AP/TLS134AP	GaAsP	Red
TLUR133AP/TLUR134AP	GaAlAs	
TLR133AP/TLR134AP	GaP	

MAXIMUM RATINGS (Ta = 25°C)

PRODUCT NAME	FORWARD CURRENT I <sub>f</sub> (mA)	REVERSE VOLTAGE V <sub>R</sub> (V)	POWER DISSIPATION P <sub>D</sub> (mW)	OPERATING TEMPERATURE RANGE T <sub>opr</sub> (°C)	STORAGE TEMPERATURE RANGE T <sub>stg</sub> (°C)
TLPG133AP/TLPG134AP	25	4	70	-20~75	-30~100
TLG133AP/TLG134AP	25	4	70	-20~75	-30~100
TLY133AP/TLY134AP	25	4	70	-20~75	-30~100
TLO133AP/TLO134AP	25	4	70	-20~75	-30~100
TLS133AP/TLS134AP	25	4	70	-20~75	-30~100
TLUR133AP/TLUR134AP	25	4	55	-20~75	-30~100
TLR133AP/TLR134AP	25	4	70	-20~75	-30~100

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ELECTRO-OPTICAL CHARACTERISTICS (Ta = 25°C)  
133AP SERIES (Colored transparent lens)

PRODUCT NAME	EMISSION SPECTRUM			LUMINOUS INTENSITY I <sub>V</sub>			FORWARD VOLTAGE V <sub>F</sub>			REVERSE CURRENT I <sub>R</sub>	
	λ <sub>p</sub>	Δλ	I <sub>F</sub>	MIN.	TYP.	I <sub>F</sub>	TYP.	MAX.	I <sub>F</sub>	MAX.	V <sub>R</sub>
TLPG133AP	555	20	15	8.0	25	15	2.15	2.8	20	100	4
TLG133AP	565	25	15	17	80	15	2.15	2.8	20	100	4
TLY133AP	585	32	15	10	50	15	2.05	2.8	20	100	4
TLO133AP	610	35	15	10	35	15	2.05	2.8	20	100	4
TLS133AP	635	40	15	10	35	15	2.05	2.8	20	100	4
TLUR133AP	660	25	20	17	40	20	1.75	2.2	20	100	4
TLR133AP	700	100	15	5.0	15	15	2.15	2.8	20	100	4
Unit	nm		mA	mcd		mA	V		mA	μA	V

134AP SERIES (Colored lusterless lens)

PRODUCT NAME	EMISSION SPECTRUM			LUMINOUS INTENSITY I <sub>V</sub>			FORWARD VOLTAGE V <sub>F</sub>			REVERSE CURRENT I <sub>R</sub>	
	λ <sub>p</sub>	Δλ	I <sub>F</sub>	MIN.	TYP.	I <sub>F</sub>	TYP.	MAX.	I <sub>F</sub>	MAX.	V <sub>R</sub>
TLPG134AP	555	20	15	4.0	15	15	2.15	2.8	20	100	4
TLG134AP	565	25	15	6.0	30	15	2.15	2.8	20	100	4
TLY134AP	585	32	15	5.0	20	15	2.05	2.8	20	100	4
TLO134AP	610	35	15	4.0	15	15	2.05	2.8	20	100	4
TLS134AP	635	40	15	4.0	15	15	2.05	2.8	20	100	4
TLUR134AP	660	25	20	7.0	20	20	1.75	2.2	20	100	4
TLR134AP	700	100	15	2.0	6.0	15	2.15	2.8	20	100	4
Unit	nm		mA	mcd		mA	V		mA	μA	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 up to 5mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.

$I_v - I_F$

