

SPECIFICATIONS

LED Lamps 发光二极管产品规格书

TOPLITE



MODEL: TOP-534S1W26C

上海鼎晖科技股份有限公司

SHANGHAI TOPLITE TECHNOLOGY CO.,LTD.

www.ledtoplight.com.cn

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TECHNICAL DATA SHEET

TOP-534S1W26C

<FOR 4.8MM ROUND TYPE LED LAMP >

1 / 7

1. FEATURES

- ※ Round type.
- ※ Low power requirement,
- ※ High reliability and a broad range of colors and packages.
- ※ Pb free.
- ※ RoHS compliant.

2. DESCRIPTION

- ※ These devices are designed from advanced optical grade epoxy, which provide superior high temperature performance and excellent moisture resistance.
- ※ The LED lamps are available with different colors, intensities.

3. APPLICATION

- ※ Indicator.
- ※ TV set.
- ※ Auto.
- ※ Monitor

PART NO.	SIZE	CHIP EMITTED COLOR	FACE COLOR
TOP-534S1W26C	4.8mm Round Type	White	Water Clear

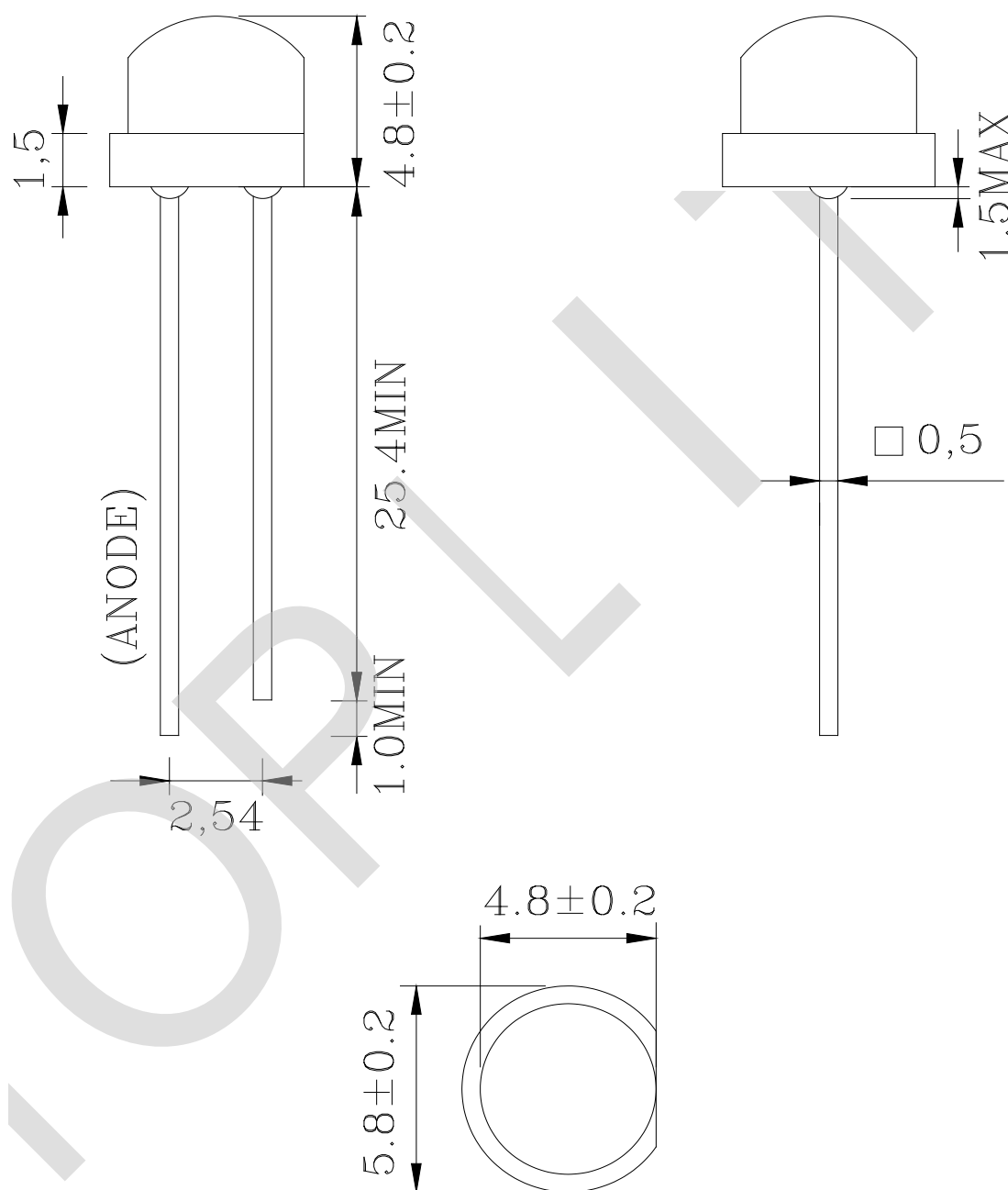
TECHNICAL DATA SHEET

TOP-534S1W26C

<FOR 4.8MM ROUND TYPE LED LAMP >

2 / 7

4. PACKAGE DIMENSIONS & CIRCUIT DIAGRAM



**TECHNICAL DATA SHEET****TOP-534S1W26C <FOR 4.8MM ROUND TYPE LED LAMP >**

3 / 7

5. ELECTRICAL/OPTICAL CHARACTERISTIC**5-1. ABSOLUTE MAXIMUM RATINGS (Ta=25℃)**

PARAMETER	SYMBOL	VALUE	UNIT
Reverse Voltage	V_R	5	V/seg
Forward Current	I_F	30	mA/seg
Peak Forward Current (1/10 Duty Cycle)	I_{PEAK}	150	mA/seg
Power Dissipation	P_D	80	mW/seg
Operating Temperature Range	T_A	- 40 ~ + 85	℃
Storage Temperature Range	T_{STG}	- 40 ~ + 85	℃
Solder Temperature	T_{sol}	260/3	℃/s



TECHNICAL DATA SHEET

TOP-534S1W26C <FOR 4.8MM ROUND TYPE LED LAMP >

4 / 7

5-2. ELECTRICAL/OPTICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Luminous Intensity	I _v	C	651	-	910	mcd I _F =20mA
		D	911	-	1274	
		E	1275	-	1785	
Forward Voltage	V _F	2.80	3.20	3.80	v	I _F =20mA
Viewpoint	2θ _{1/2}	-	117	-	deg	I _F =20mA
Color Temperature	T _c	4600	-	15000	K	I _F =20mA
Color coordinates	X Axis	0.264	-	0.361		I _F =20mA
	Y Axis	0.248	-	0.385		
Luminous Flux	Φ	-	4.50	-	lm	I _F =20mA
Luminous Efficiency	η	-	70.70	-	lm/W	I _F =20mA
Spectral Line Half-Width	Δ λ	-	30	-	nm	I _F =20mA
Reverse Current	I _R	-	-	10	uA	V _R =5V

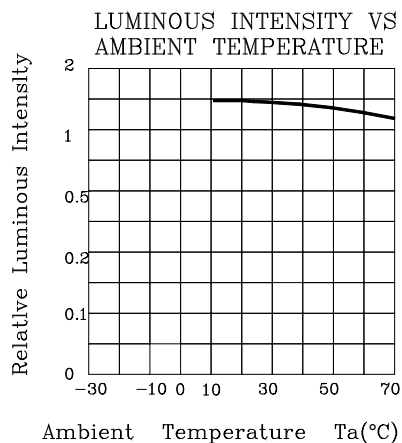
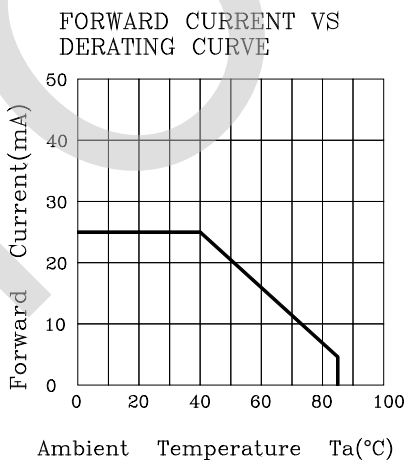
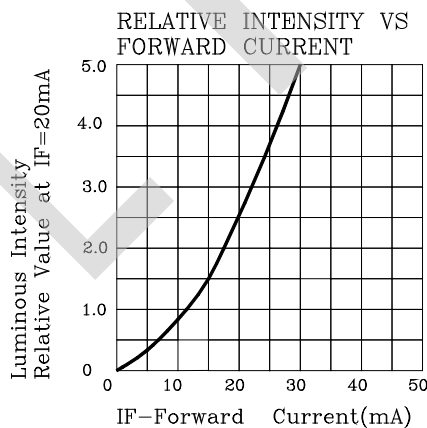
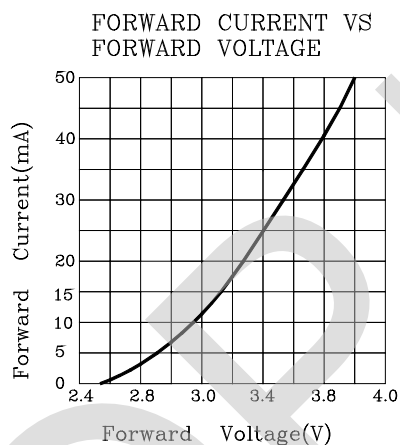
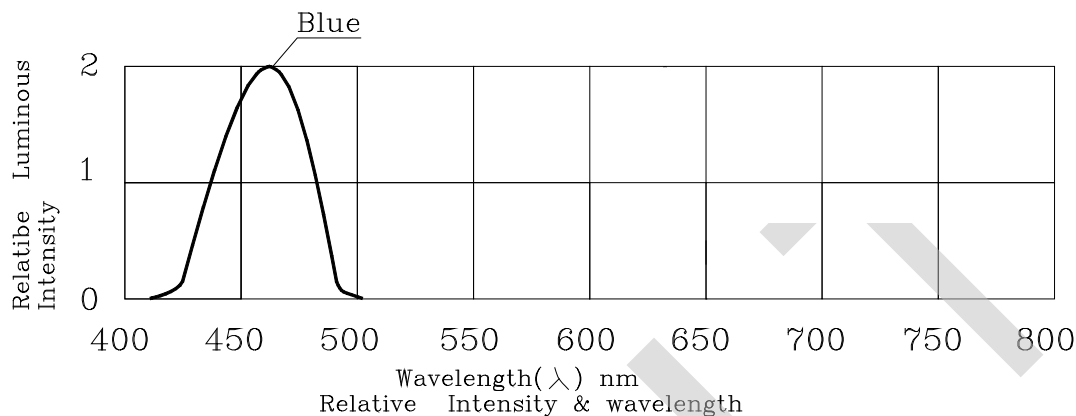
TECHNICAL DATA SHEET

TOP-534S1W26C

<FOR 4.8MM ROUND TYPE LED LAMP >

5 / 7

5-3. ELECTRICAL/OPTICAL CHARACTERISTIC CURVES





TECHNICAL DATA SHEET

TOP-534S1W26C

<FOR 4.8MM ROUND TYPE LED LAMP >

6 / 7

6. QUALITY CONTROL AND ASSURANCE

CLASSIFICATION	TEST ITEM	TEST CONDITION
ENDUTRANCE TEST	OPERATION LIFE	Ta=under room temperature If=12mA-25mA per segment or Ip=80mA/duty=1/8,Pw=1.25mS Ip=160mA/duty=1/16,Pw=1.mS(DOT) Test time=1000HRS(-24HRS+72HRS)
	MOISTURE	Ta=65°C±5°C RH=90-95% Test time=240HRS±2HRS
	HIGH TEMPERATURE HIGH HUMIDITY REVERSE BIAS	Ta=65°C±5°C RH=90-95% VR=5V Test time=500hrs(-24HRS+48HRS)
	HIGH TEMPERATURE STORAGE	To evaluate device's durability for long term storage in high temperature Ta=85°C±5°C Test time=1000HRS(-24HRS+72HRS)
	LOW TEMPERATURE STORAGE	Ta=-35°C±5°C Test time=1000HRS(-24HRS+72HRS)
ENVIRONMENTAL TEST	TEMPERATURE CYCLING	Ta=85°C~25°C~-35°C time=30min 5min 30min 5min Cycle test:10cycles
	THERMAL SHOCK	Ta=85°C±5°C~-35°C±5°C time=10min 10min Cycle test:10cycles
	SOLOER RESISTANCE	T.sol=260°C±5°C time=10±1sec
	SOLOER ABILITY	T.sol=230°C±5°C time=5±1sec

TECHNICAL DATA SHEET**TOP-534S1W26C**

<FOR 4.8MM ROUND TYPE LED LAMP >

7 / 7

7. SOLDERING CONDITIONS

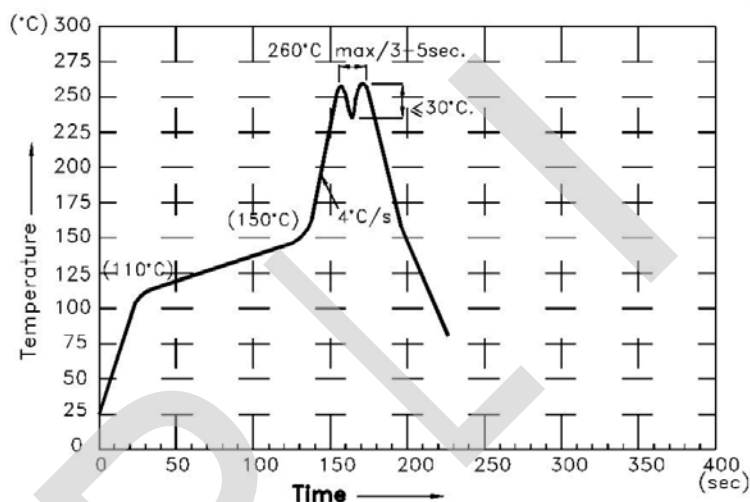
The recommended conditions for soldering are as follows.

Because the component is made with epoxy resin, the units are susceptible to heat. Therefore, the preheating and soldering temperatures should be kept as low as possible to avoid damage.

7-1. Manual Soldering Conditions(with 1.5mm Iron tip).

Iron Tip Temperature: 350°C Max, Time: 3s Max.

Position: The iron should be situated at least 2mm away from the root of the leads.

7-2. Through the Wave Soldering Conditions Wave Soldering Profile For Lead-free Through-hole LED.**7-3. Soldering General Notes:**

- Recommend manual soldering to be used only for repair and rework purposes. The soldering iron should not exceed 30W in power. The tip of the soldering iron should not touch the reflector case to avoid heat-damage.
- Maintain the pre-heat and peak temperatures with dip units as low as possible and the times as short as is feasible, since the products are susceptible to heat during flow soldering.
- After soldering, least three minutes for the component to cool to room temperature before further operations.
- If components will undergo multiple soldering processes, or other processes where the components may be subjected to intense heat, please check with for compatibility.