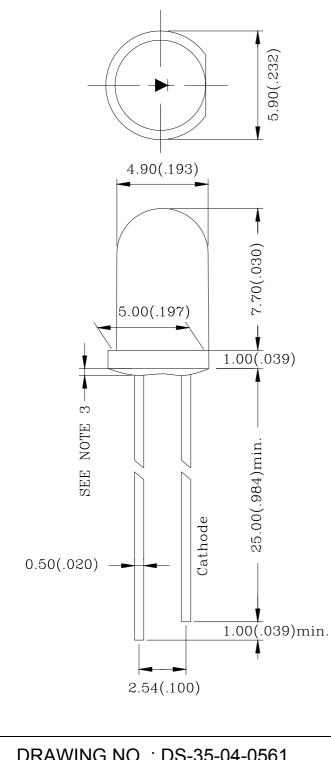


L-5T47SPG6C-D1

REV:A/0

PACKAGE DIMENSIONS



Note:

- 1.All Dimensions are in millimeters.
- 2.Tolerance is ±0.25mm(0.010 ") Unless otherwise specified.
- 3. Protruded resin under flange is 1.5mm(0.059 ") max.
- 4.Lead spacing is measured where the leads emerge from the package.
- 5. Specification are subject to change without notice
- 6. highlight <-400V the led can withstand the max static level when assembling or operation.

DRAWING NO. : DS-35-04-0561

DATE: 2004-09-08

Page: 2



L-5T47SPG6C-D1

REV:A/0

FEATURES

- * SUITABLE HIGH PULSE CURRENT OPERATION
- * EXTRA HIGH RADIANT POWER AND RADIANT INTENSITY
- * HIGH RELIABILITY
- * LOW FORWARD VOLTAGE

CHIP MATERIALS

- * Dice Material : GaInN/GaN
- * Light Color : ULTRA PURE GREEN
- * Lens Color : WATER CLEAR

ABSOLUTE MAXIMUM RATING:(Ta=25°C)

SYMBOL	DESCRIPTION	ULTRA PURE	UNIT	
		GREEN		
Pad	Power Dissipation Per Chip	130	mW	
VR	Reverse Voltage Per Chip	5	V	
lF	Average Forward Current Per Chip	30	mA	
-	Derating Linear From 25°C Per Chip	0.4	mA/°C	
Topr	Operating Temperature Range	-25°C to 85°C		
Tstg	Storage Temperature Range	-40°C to 85°C		
Lead Soldering Temperature { 1.6mm(0.063 inch) From Body } 260°C±5°C For 5 Seconds				

ELECTRO-OPTICAL CHARACTERISTICS:(Ta=25°C)

SYMBOL	DESCRIPTION	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
VF	Forward Voltage	IF = 20mA		3.7	4.2	V
IR	Reverse Current	VR = 5V			100	μA
λD	Dominant Wavelength	IF = 20mA		508		nm
Δλ	Spectral Line Half-Width	IF = 20mA		22		nm
201/2	Half Intensity Angle	IF = 20mA		18		deg
١v	Luminous Intensity	IF = 20mA		3000		mcd

DRAWING NO. : DS-35-04-0561

DATE: 2004-09-08

Page: 3



50

40

30

20

10

0

2.0

3.0

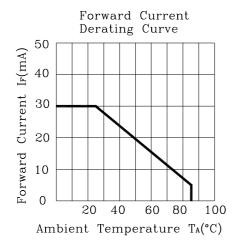
Forward Current(mA)

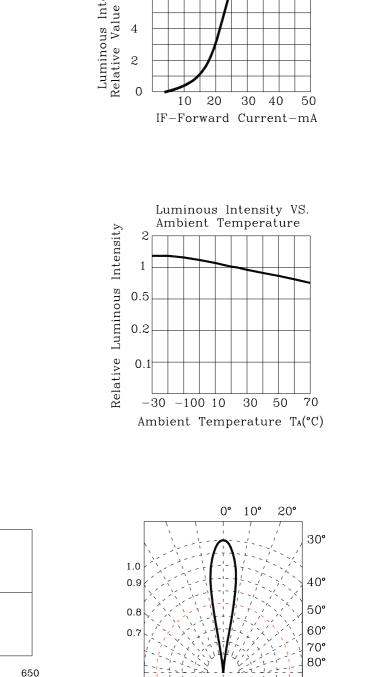
1.0

0.5

450

5.0 mm DIA LED LAMP L-5T47SPG6C-D1 REV:A/0 Forward Current Vs Luminous Intensity VS. Forward Voltage (cd) Forward Current Luminous Intensity Relas Relative Value at IF=20mA 10 8 6 4 2 0 4.0 5.0 6.0 7.0 10 20 30 40 50 Forward Voltage(v) IF-Forward Current-mA





0.1

0.2

VIEW ANGLE

0.4

0.6

0.3

0.5



500

550

Wavelength(nm)

600

DATE: 2004-09-08

Page: 4

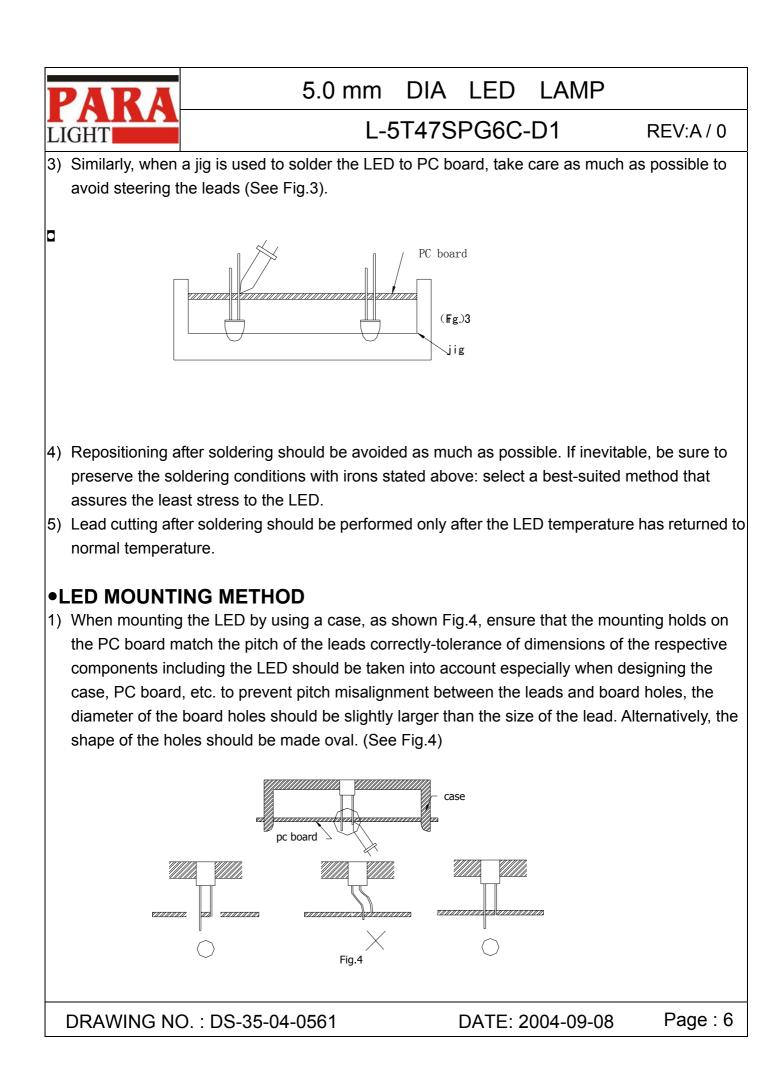


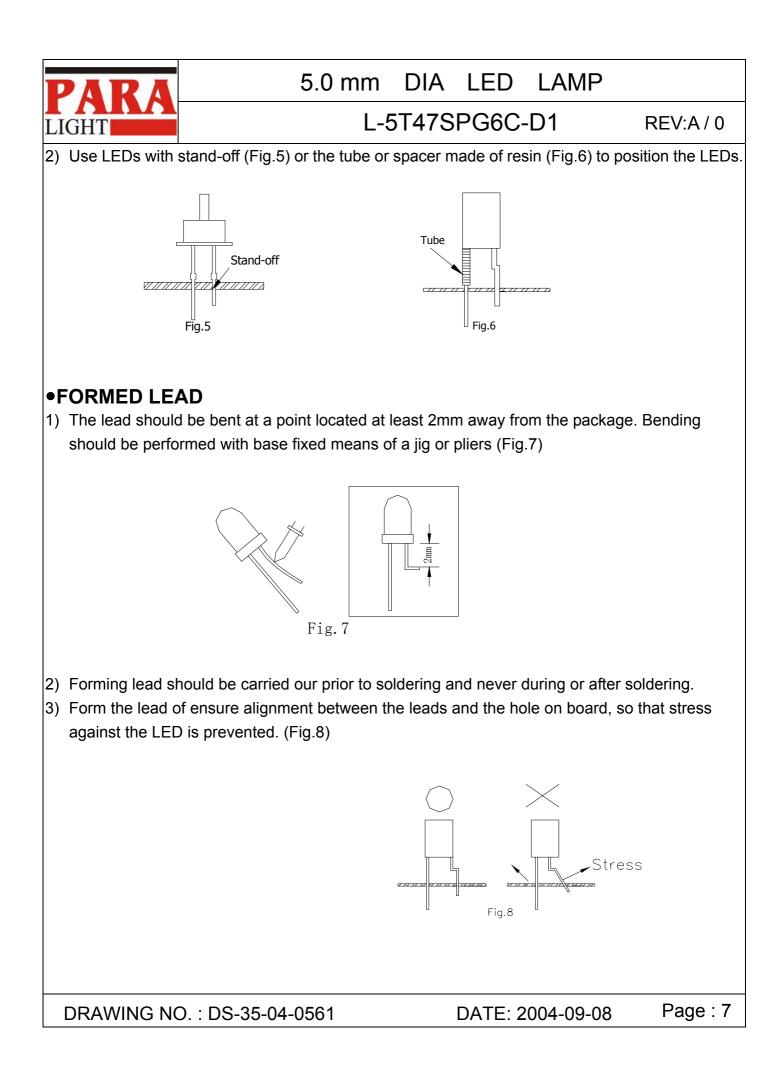
L-5T47SPG6C-D1

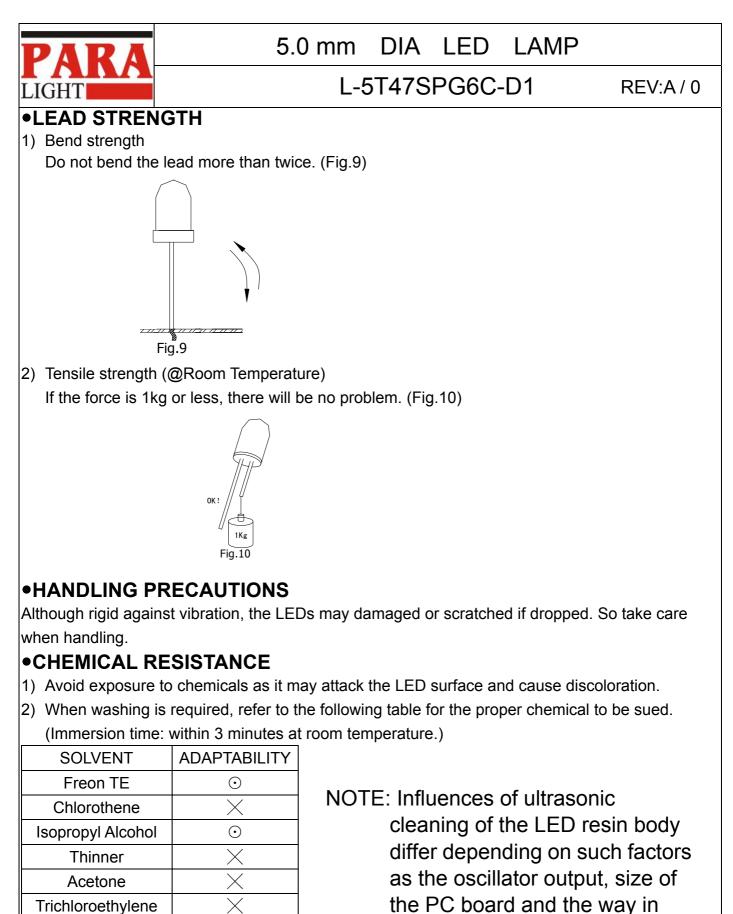
REV:A/0

•SOLDERING

	3			
METHOD	SOLDERING CONDITIONS	REMARK		
DIP SOLDERING	Bath temperature: 260±5℃ Immersion time: with 5 sec	 Solder no closer than 3mm from the base of the package Using soldering flux," RESIN FLUX" is recommended. 		
SOLDERING IRON	Soldering iron: 30W or smaller Temperature at tip of iron: 260℃ or lowe Soldering time: within 5 sec.	 During soldering, take care not to press the tip of iron against the lead. To prevent heat from being transferred directly to the lead, hold the lead with a pair of tweezers while soldering 		
-		e package is fixed with a panel (See fIG.1)		
be careful not	t to stress the leads with iron tip.			
Lead wries Panel (Fig. 1)				
2) When soldering wire to the lead, work with a Fig (See Fig.2) to avoid stressing the package.				
۵				
	a slight learance	Lead wries (Fig. 2)		
	NO. : DS-35-04-0561	DATE: 2004-09-08 Page : 5		







 \odot --Usable \times --Do not use.

which the LED is mounted.

DRAWING NO. : DS-35-04-0561

DATE: 2004-09-08 Page : 8



L-5T47SPG6C-D1

REV:A/0

Experiment Item:

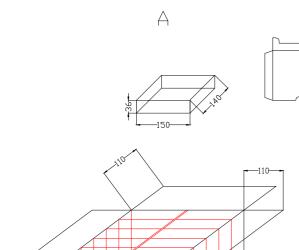
Item	Test Condition		
item	Lamp & IR	Reference Standard	
OPERATION LIFE	Ta : 25±5°C IF= 20mA RH : <=60%RH ① DYNAMIC:100mA 1ms 1/10 duty ② STATIC STATE: IF=20mA TEST TIME: 168HRS (-24HRS , +24HRS) 500HRS (-24HRS , +24HRS) 1000HRS (-24HRS , +72HRS)	MIL-STD-750 : 1026 MIL-STD-883 : 1005 JIS C 7021 : B-1	
HIGH TEMPERATURE HIGH HUMIDITY STORAGE	Ta: 65℃±5℃ RH: 90~95%RH TEST TIME:240HRS±2HRS	MIL-STD-202:103B JIS C 7021:B-1	
TEMPERATURE CYCLING	105℃~25℃~-55℃~25℃ 30min 5min 30min 5min 10CYCLES	MIL-STD-202 : 107D MIL-STD-750 : 1051 MIL-STD-883 : 1010 JIS C 7021 : A-4	
THERMAL SHOCK	105℃±5℃~-55℃±5℃ 10min 10min 10CYCLES	MIL-STD-202:107D MIL-STD-750:1051 MIL-SYD-883:1011	
SOLDER RESISTANCE	T,sol:260℃±5℃ DWELL TIME:10±lsec	MIL-STD-202:210A MIL-STD-750-2031 JIS C 7021:A-1	
SOLDERABILITY	T,sol:230℃±5℃ DWELL TIME:5±Isec	MIL-STD-202 : 208D MIL-STD-750 : 2026 MIL-STD-883 : 2003 JIS C 7021 : A-2	

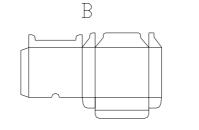


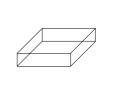
L-5T47SPG6C-D1

REV:A/0

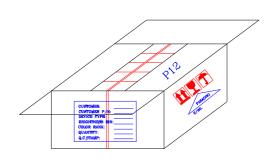
PACKAGE







С



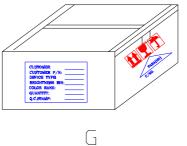
Е

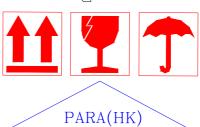


 \mathbb{D}

315

CUSTOMER CUSTOMER P/N: DEVICE TYPE BRIGHTNESS BIN: COLOR RANK: OLIANTITY	
QUANTITY:	
Q.C.STAMP:	





C/NO.

Note:

- 1.All Dimensions are in millimeters.
- 2.Tolerance is ±10mm(0.394 ") Unless otherwise specified.
- 3.500pcs/box A 5000pcs/box D

DRAWING NO. : DS-35-04-0561

DATE: 2004-09-08

Page :10