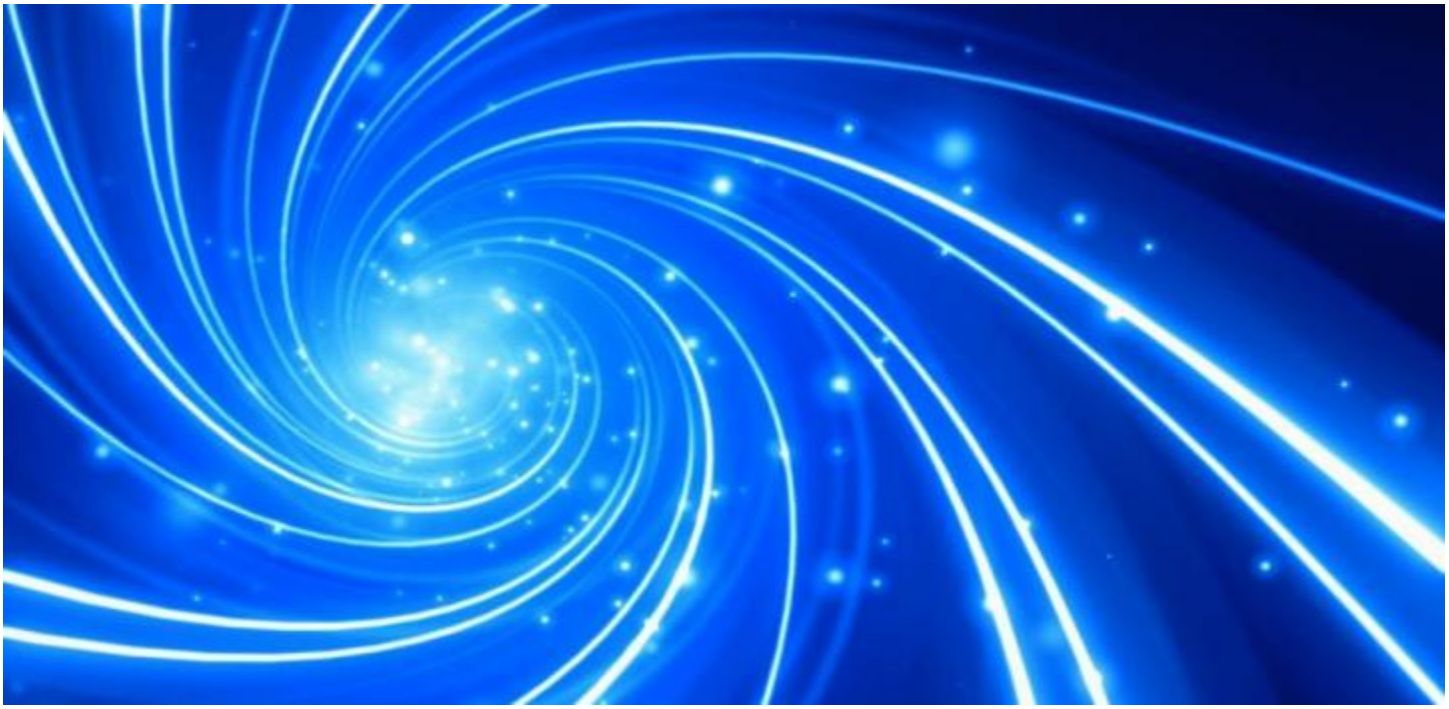
SunpuLED



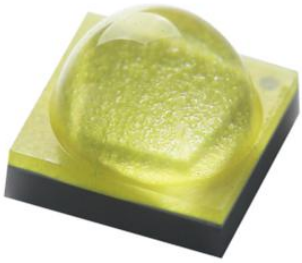
BeterLED, BeterLife

ProductAcknowledgment

Manufacturers		ClientConfirm(Quality)	ClientConfirm(R&D)
Prepared			
Audit			
Approve			
After both sides confirmed the Acknowledgment qualified,must be signed and sealed			
Supply-sideAddress：No150.XinHuiRoad，Hi-TechPark,Ningbo,china			
Tel：0574-87740939			

LEDSPECIFICATION

PartNo：P35C-60AA0101-0501ED-B



Features:

High brightness、high reliability、long life

Light angle：120°

Typical color temperature：6000K-7000K

productpresentation:

This series of products with high reliability of alumina ceramic substrate,with high brightness,high density,long servicelife,low depreciation,etc.,is an ideal choice for outdoor high requirements of products.

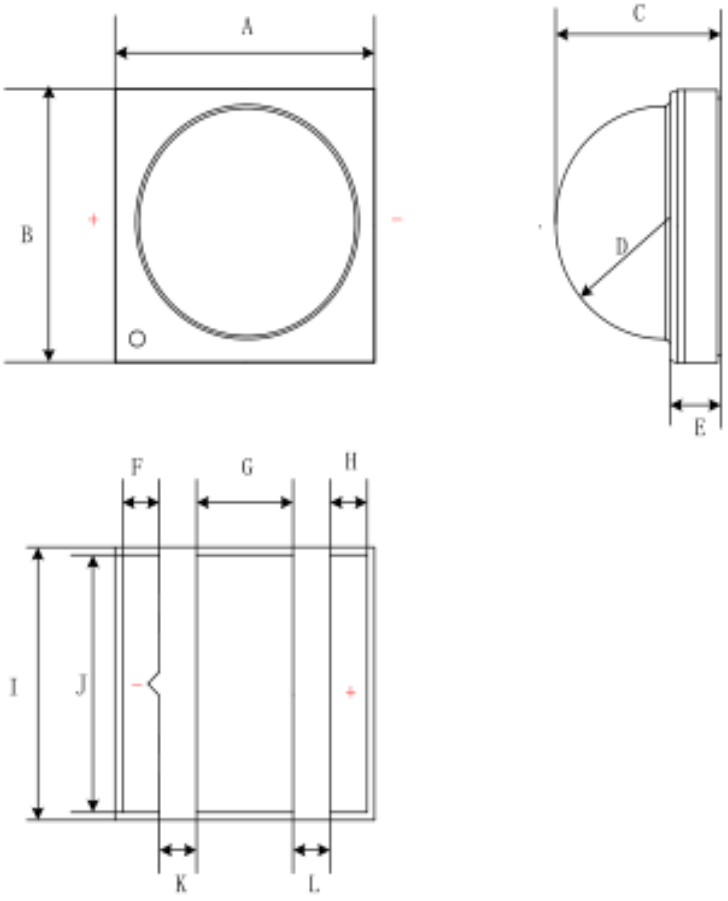
SunpuOpto

SUNPULEDCO,.LTD

LEDSPECIFICATION

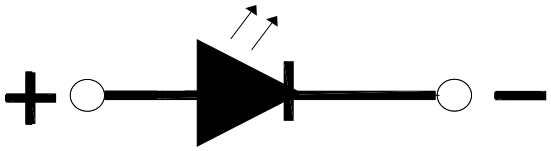
PartNo：P35C-60AA0101-0501ED-B

Outlinedimensions:



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	3.4	3.5	3.6
B	3.4	3.5	3.6
C	2.10	2.20	2.30
D	1.40	1.45	1.50
E	0.60	0.75	0.85
F	0.4	0.5	0.6
G	1.2	1.3	1.4
H	0.4	0.5	0.6
I	3.4	3.5	3.6
J	3.2	3.3	3.4
K	0.45	0.5	0.55
L	0.45	0.5	0.55

Circuitstructure:



1P1S

NOTES:

All dimensions are in millimeters.

Tolerance is ±0.1mm unless otherwise noted.

It is strongly recommended that the temperature of TS (Weldingplate) is not higher than 85℃.

LEDSPECIFICATION

PartNo：P35C-60AA0101-0501ED-B

Limitparameter(Ta=25℃)

Parameter	Symbol	TestCondition	Value		Unit
			Min.	Max.	
DC Forward Current	I_f	Tc=25℃	----	2000	mA
Reverse voltage	V_r	Tc=25℃	----	5	V
LED Junction Temperature	T_j	----	----	150	℃
Operating Temperature	T_{opr}	----	-40	+85	℃
Storage Temperature	T_{str}	----	0	+40	℃
Soldering temperature	----	----	260° for 5 seconds max		

Photoelectricparameters(Ta=25℃)

CCT	Item	Symbol	Test	Min	Typ	Max	Unit
6000-7000k	Forward Voltage	V_F	IF=350mA	2.7	3.0	3.3	V
	Luminous Flux	Φ_v			180	--	lm
	Color Temperature	CCT		6000	6500	7000	K
	General Color	R_a		--	68	--	--
	Electricpower	W		--	2	--	℃/W

PartNo：P35C-60AA0101-0501ED-B

Typicalcurve

Fig.1 forward current Vs forward voltage

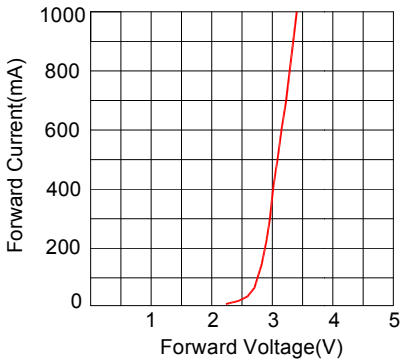


Fig.2 Relative intensity Vs Forward current

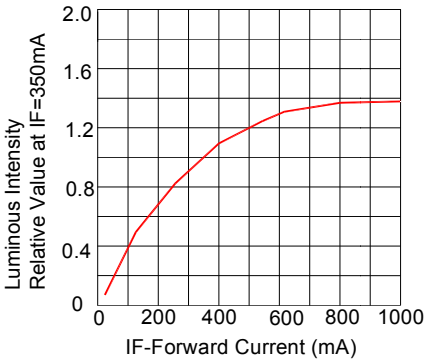


Fig.3 Forward current Vs Ambient temperature

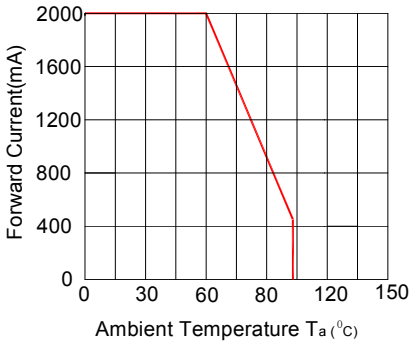
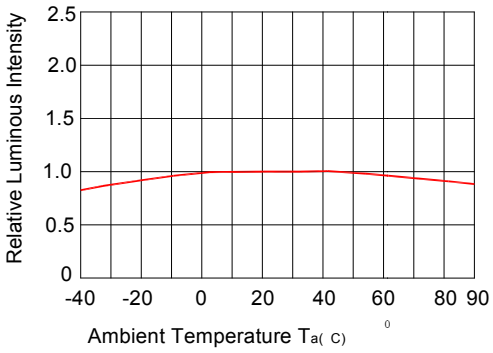
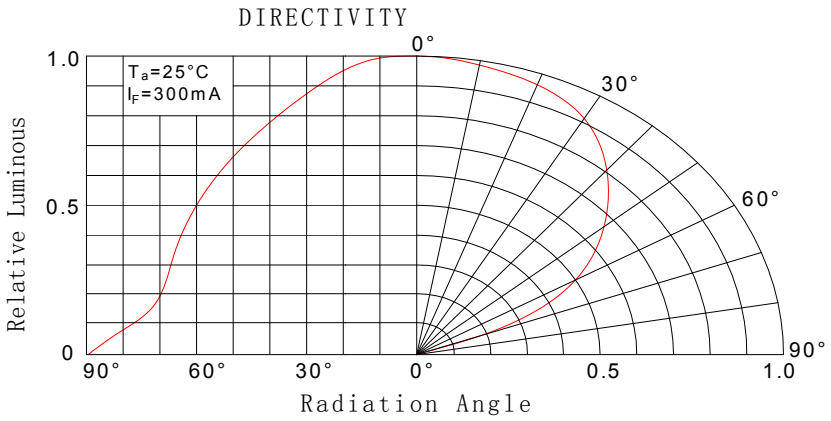


Fig.4 Relature intensity Vs Ambient temperayure





PartNo：P35C-60AA0101-0501ED-B

ReliabilityTestsandResults

Test	Reference Standard	TestConditions	Test Duration	Units Failed/ Tested
Temperature Cycle	JEITAED-4701 100 105 or MIL-STD-202G	-40℃(30min)~25℃(5min)~100℃(30min)~25℃(5min)or -40℃(30min)~100℃(30min)	100cycles	0/10
High Temperature Storage	JEITAED-4701 200 201	T_A=90℃	1000hours	0/10
HighTemperatureHumidityStorage	JEITAED-4701 100 103	T_A=85℃RH=90%	1000hours	0/10
LowTemperatureStorage	JEITAED-4701 200 202	T_A=-40℃	1000hours	0/10
HighTemperatureOperatingLife	JESD22-A108D	TC=85℃I_F=2000mA	1000hours	0/10
ElectrostaticDischarges	JEITAED-4701 300 304	HBM 2KV 3KΩ 100Pf 3pulses nedative		0/10
TemperatureCycle* 1	Sunpu- opto	-40℃(30min)~(90s)~110℃(30min)~(90s)-40℃	300cycles	0/10
TemperatureHumidityStorage* 2	Sunpu- opto	T_A=85℃RH=85%I_F=2000mA	1000hours	0/10

✧NOTES:

*Measurements are performed after allowing the LEDs to return to room temperature

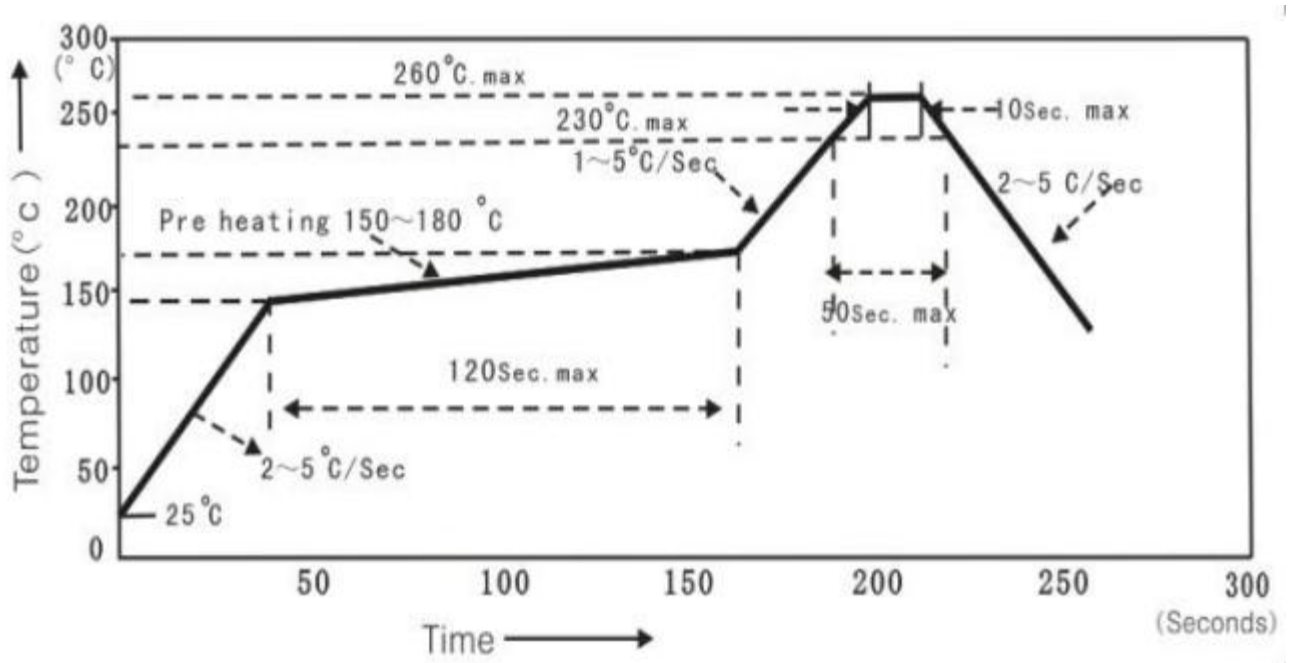
PartNo：P35C-60AA0101-0501ED-B

FailureCriteria

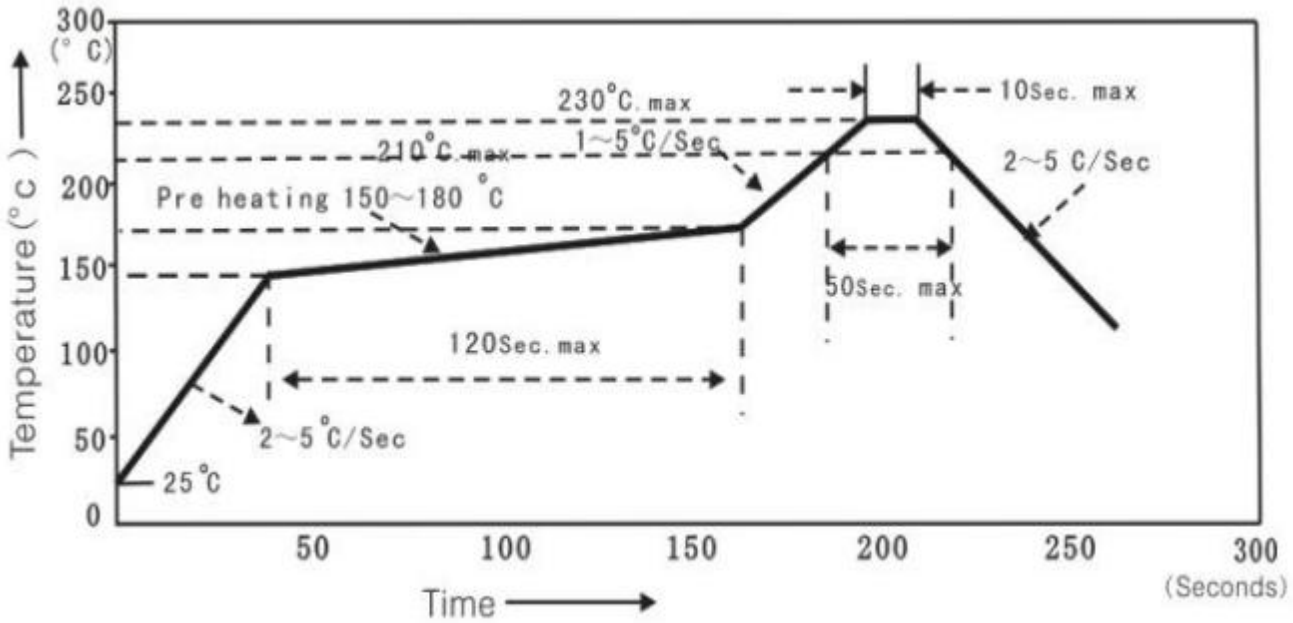
Items	Conditions	FailureCriteria
Forward Voltagd(VF)	I_F=350mA	>Initialvaluex1.1
Luminous Flux(ΦV)	I_F=350mA	<Initialvaluex0.7

PartNo：P35C-60AA0101-0501ED-B

Lead-freesolderreflowcurve:



Haveleadsoldereflowcurve:



LEDSPECIFICATION

PartNo：P35C-60AA0101-0501ED-B

Temperature curve characteristics	Have lead solde	Lead-free solder
Average rate of tenperature increase(Tsmax-Tp)	Max3℃/s	Max3℃/s
Preheat： minimum temperature(Tsmin)	100℃	150℃
Prehea： maximum temperature(Tsmax)	150℃	200℃
Maintain a higher temperature： temperature(TL)	183℃	217℃
Maintain a higher temperature： time(tL)	60-150s	60-150s
Tp/ temperature	215℃	260℃
Ramp Down Rate	Max6℃/s	Max6℃/s
The time needed for heating up to theTp of 25℃	Max6min	Max8min

PartNo：P35C-60AA0101-0501ED-B

Packaging