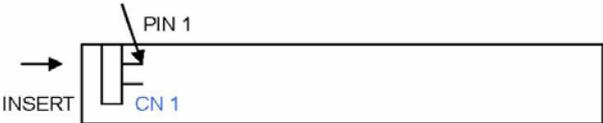


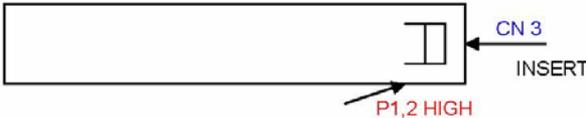
# ES-1112N-LSME

PIN ASSIGNMENT:



INPUT: CN1  
 MODEL NO: S5B-PH-SM  
 SUPPLIER: JST,FCK

PIN	SYMBOL	REMARK
1	VIN	12V
2	GND	
3	VRMT	ON(5V)/OFF(0V)
4	BRI	0V-Brightest 5V-Darkest
5	NC	



OUTPUT: CN 3  
 MODEL: SMO4(4.0)  
 SUPPLIER: JST.FCK

PIN	SYMBOL	REMARK
1,2	V HIGH	HIGH VOLTAGE
4	V LOW	FB

**NOTE:** V HIGH AND V LOW MUST CONNECT CORRECTLY, IF YOU MAKE A MISTAKE TO CONNECT YOU WILL GET HURT AND MODULE WILL BREAK.

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ELECTRICAL CHARACTERISTICS

ITEMS	SYMBOL	MIN	TYP	MAX	UNIT	RE. MARK
Input v	V <sub>in</sub>	11	12	13	V	
Input C	I <sub>in</sub>	800	1200	1600	MA	
Frequency	F	35	50	70	KHz	
OUTPUT C	I <sub>out</sub>	9	12	15	MA	Brightness max.
Open V	V <sub>open</sub>	700	1000	1350	V <sub>rms</sub>	
Output V	V <sub>out</sub>	400	600	750	V <sub>rms</sub>	

WEIGHT: Approximate 18Gms

RELIABILITY TEST

FOLLOWING TEST ITEMS ARE ASSURED

Items	Conditions	Judgment
Low temp. Storage 3	-30°C 500h	Electric & appearance should be in the spec.  *See next table
Low temp. operating	0°C 500h	
High temp. storage	85°C 500h	
High temp. operating ***	58°C 1000h	
Temp. cycles	-30°C ---80°C 30min Each 100 cycles	
Humidity operating.	50°C 90-95%RH 500h	
Vibration	X. Y. Z. 30min. Each	
Mechanical shock	100G 6ms Half Sinusoid wave x. y. z. 3 Times Per Each	

High temperature operating function inspection:

Test one Time/10 Hours each

Item	Temperature	Conclusion	Dynamic testing
ON&OFF	50°C	OK	1200 Times continue
Noise	50°C	OK	Vin low noise also
P.W.M.	50°C	OK	Include brightness adjust
I in	50°C	OK	-----
Frequency	50°C	OK	-----
Sinusoid wave	50°C	OK	AC in & out
Brightness control	50°C	OK	Without flash

# Test Circuit

