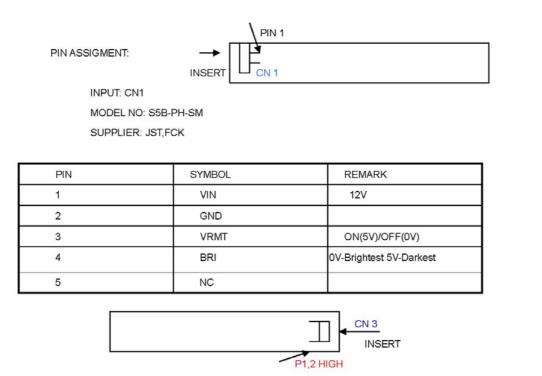
# ES-1112N-TSME



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.



ITEMS	SYMBOL	MIN	TYP	МАХ	UNIT	RE. MARK
Input v	Vin	11	12	13	V	
Input C	l in	800	1200	1600	МА	
Frequency	F	35	50	70	KHz	
OUTPUT C	l out	9	12	15	МА	Brightness max.
Open V	V open	700	1000	1350	Vrms	
Output V	V out	400	600	750	Vrms	

#### ELECTRICAL CHARACTERISTICS

WEIGHT: Approximate 18Gms



## RELIABILITY TEST FOLLOWING TEST ITEMS ARE ASSURED

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

High temperature operating function inspection:

### Test oneTime/10 Hours each

Item	Temperature	Conclusion	Dynamic testing
ON&OFF	<b>50</b> ℃	ОК	1200 Times continue
Noise	<b>50</b> ℃	ок	Vin low noise also
P.W.M.	<b>50</b> ℃	ОК	Include brightness adjust
l in	<b>50</b> °C	ок	
Frequency	<b>50</b> °C	ок	
Sinusoid	<b>50</b> °C	ОК	AC in & out
wave			
Brightness	<b>50</b> °C	ОК	Without flash
control			



## Test Circuit

