

Applicable LCD:

- LTD104C11S (Toshiba Matsushita Display Technology)
- LTD121C30S (Toshiba Matsushita Display Technology)
- LTD121GA0S (Toshiba Matsuhita Display Technology)

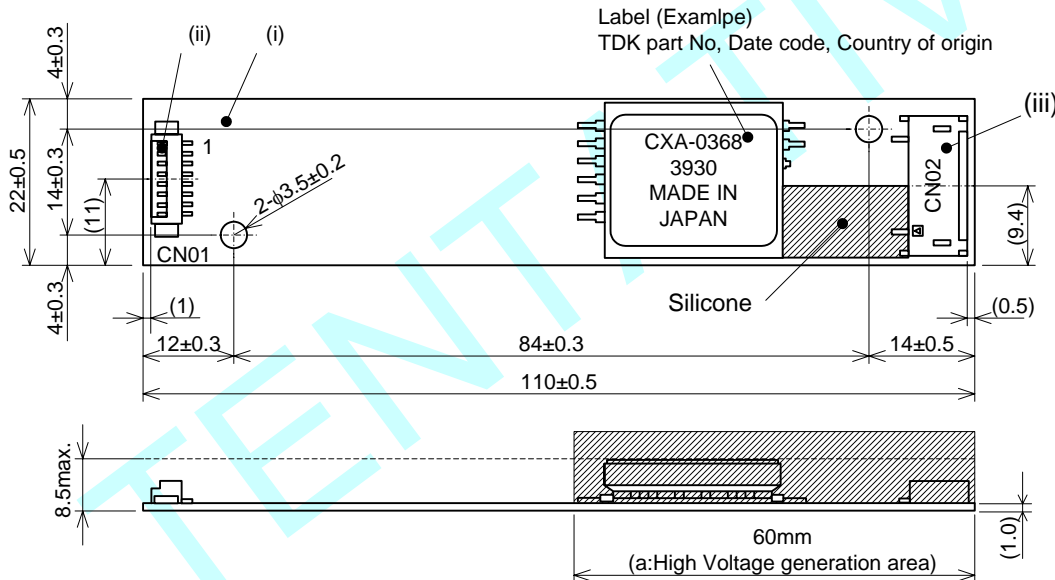
FEATURES:

- Wide operating temperture
- PWM dimming type
- Current feedback circuit
- Alarm signal function
- Silicon coating in high voltage area

TEMPERATURE & HUMIDITY:

- Operating Temperature Range -10°C ~ +70°C
- Storage Temperture Range -30°C ~ +85°C
- Humidity 95%RH max

DIMENTIONS:



Note1 : Please keep minimum 2mm clearance (all directions) between high voltage area as marked on mechanical drawing and any conductors.

No.	Part Description	Qty.	Note
(i)	PWB	1	UL94V-0 t=1.0mm
(ii)	Part Description	1	53261-0890 (Molex)
(iii)	Part Description	1	SM03(7-D1)B-BHS-1 (JST)

CN01:53261-0890 (Molex)

Pin	Symbol	Note
CN01-1	Vin	10.8~13.2V Input Voltage
CN01-2		
CN01-3	GND	0V Ground
CN01-4		
CN01-5	Vrmt	0~0.4V : OFF 2.5~Vin : ON Remote Control
CN01-6	Vbr / Rbr	0~3.0V / 0~10kΩ Brightness Control
CN01-7	GND	0V Ground
CN01-8	Vbr	Open / GND Level Alarm Signal

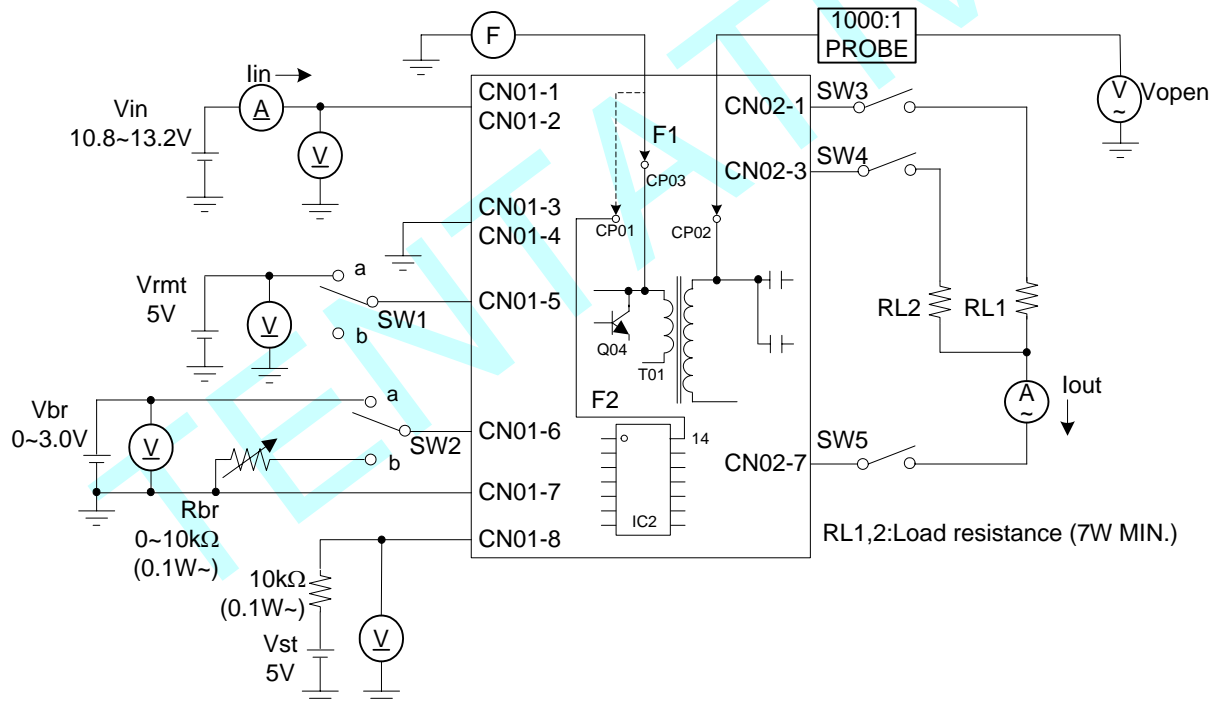
CN02:SM03(7-D1)B-BHS-1 (JST)

Pin	Symbol	Note
CN02-1	Vhigh1	600Vrms/6.0mArms
CN02-2	NC	-
CN02-3	Vhigh2	600Vrms/6.0mArms
CN02-4	NC	-
CN02-5	NC	-
CN02-6	NC	-
CN02-7	Vlow	(2V)

ELECTRICAL CHARACTERISTICS:

Parameter	Symbol	Conditions								Unit	Note
		Vin(V)	Vrmt(V)	Vbr(V)	Ta(°C)	RL1/RL2(kΩ)	min.	typ.	max.		
Output Current	Iout	12.0±1.2	5±0.5	0	25±5	90 / 90	11.3	12.0	12.7	mArms	Max Brightness
		12.0±1.2	5±0.5	3.0±0.05	25±5	90 / 90	3.0	4.0	5.0	mArms	Min Brightness
Input Current	Iin	12.0±1.2	5±0.5	0	25±5	90 / 90	-	0.71	1.15	A	
Frequency	F1	12.0±1.2	5±0.5	0	25±5	90 / 90	50	56	62	kHz	
Frequency (Duty)	F2	12.0±1.2	5±0.5	0	25±5	90 / 90	150	175	200	Hz	
Open Voltage	Vopen	10.8±0.1	5±0.5	0	25±5	∞ / ∞	1.5	1.65	1.8	kVrms	
		12.0±1.2	5±0.5	0	25±5	90 / 90	-	0	-	V	Normal
Alarm Signal	Vst	12.0±1.2	5±0.5	0	25±5	∞ / 90	-	5	-	V	SW3 open
		12.0±1.2	5±0.5	0	25±5	90 / ∞	-	5	-	V	SW4 open
		12.0±1.2	5±0.5	0	25±5	∞ / ∞	-	5	-	V	SW5 open

TEST CIRCUIT:



Note2 : Please do not connect GND(CN01-3,04) and Vlow(CN02-7).

Note3 : In case of that any one or more of SW3,SW4 and SW5 would be open, CN01-8 will become high impedance in about 3seconds, and will stop operation same time by its safety function.

SW1	Operation of Unit
a	Operation
b	Non Operation
OPEN	Non Operation

SW2	Operation of Unit
a	Voltage dimming Vbr=0~3V (Vbr=0V : Max Brightness)
b	Variable resistance dimming Rbr=0~10kΩ (Rbr=0V : Max Brightness)