CXA-0368 (8.0W DUAL OUTPUTS WITH DIMMING FUNCTION)

Applicable LCD:

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

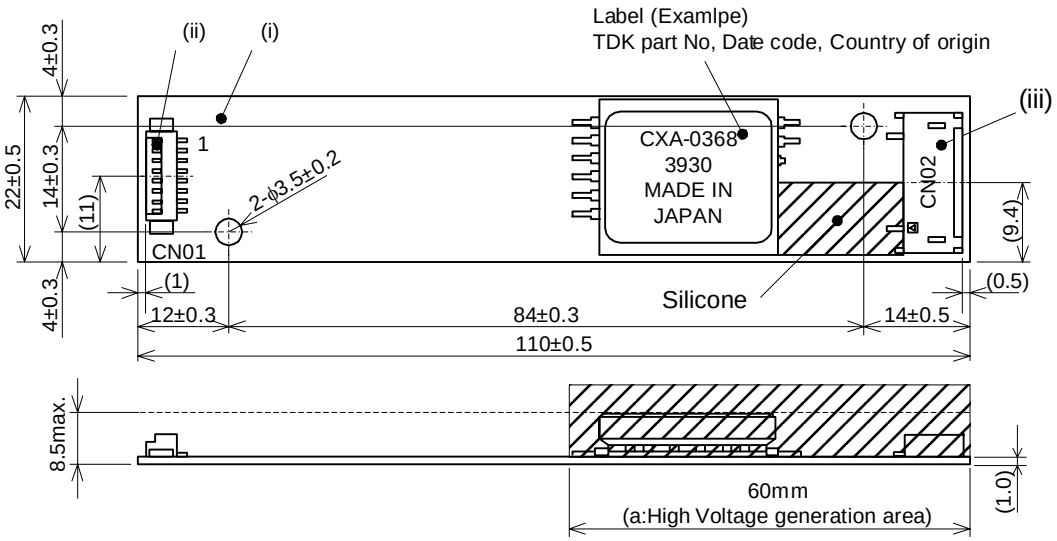
FEATURES:

a. This inverter is for two lamps. It has Dimming function(PWM System) and Remote function.
b. This product has shutdown function.
It prevents from keeping generating the high voltage when the lamps open.(Refer Note.6.)
c. With lamp failure detector.
Normal Operation : CN1-8=0V
Some Lamps Open : CN1-8=5V
d. Select the way of dimming (CN1-6)
1. Insert a potentiometer (0-10kΩ)
2. Apply the voltage (0-3.0V)
e. The high-voltage area (terminals and patterns) is coated with silicone so as to avoid the defects caused by dust.

TEMPERATURE & HUMIDITY:

Operating Temperature Range	-10°C ~ +65°C
Storage Tempreture 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.	Material	Using connector	Corresponding connector
(i)	PWB	1	Conposite (CEM-3) t=1.0mm	-	-
(ii)	Input Connector	1	-	53261-0890 (Molex)	51021-890 (Molex)
(iii)	Output Connector	1	-	SM03(7-D1)B-BHS-1 (JST)	BHR-04VS-1 (JST)

CN01:53261-0890 (Molex)

Pin	Symbol	Note	
CN1-1	Vin	10.8~13.2V	Input Voltage
CN1-2			
CN1-3	GND	0V	Ground
CN1-4			
CN1-5	Vrmt	0~0.4V : OFF 2.5~Vin : ON	Remote Control
CN1-6	Vbr / Rbr	0~3.0V / 0~10kΩ	Brightness Control
CN1-7	GND	0V	Ground
CN1-8	Vst	Open / GND Level (Open corrector)	Alarm Signal

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

Pin	Symbol	Note
CN2-1	Vhigh1	600Vrms/6.0mArms
CN2-2	Vhigh2	600Vrms/6.0mArms
CN2-3	NC	-
CN2-4	Vlow	(2V)

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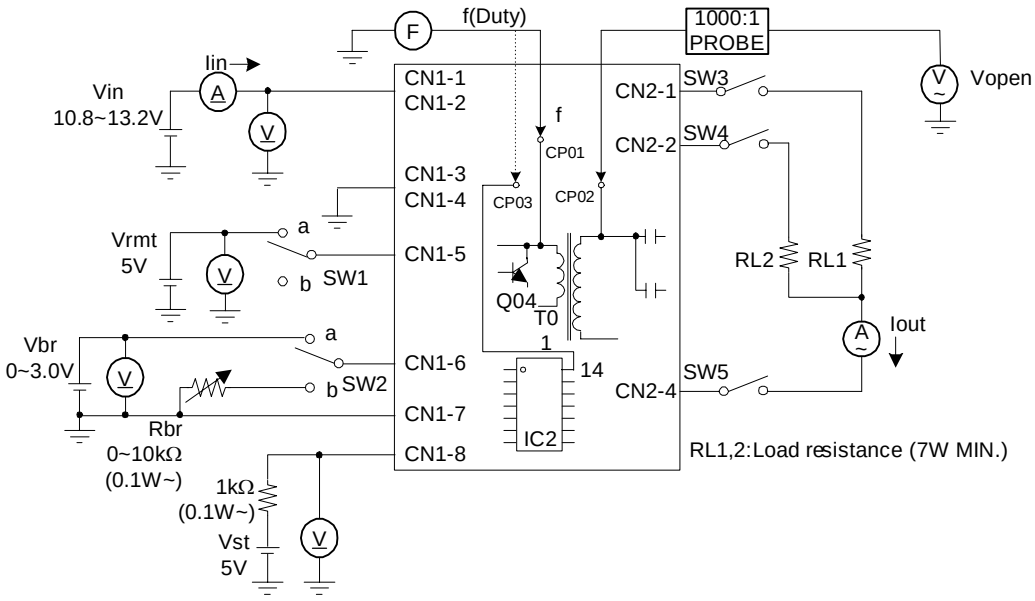
ELECTRICAL CHARACTERISTICS:

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	75 / 75	11.3	12.0	12.7	mArms	Max Brightness
		12.0±0.05	5±0.5	3.0±0.05	25±5	75 / 75	3.0	4.0	5.0	mArms	Min Brightness
Input Current	Iin	12.0±0.05	5±0.5	0	25±5	75 / 75	-	0.6	0.69	A	
Frequency	F1	12.0±1.2	5±0.5	0	25±5	75 / 75	50	56	62	kHz	
Frequency (Duty)	F2	12.0±1.2	5±0.5	0	25±5	75 / 75	150	175	200	Hz	
Open Voltage	Vopen	10.8±0.1	5±0.5	0	25±5	∞ / ∞	1.5	1.65	1.8	kVrms	
Alarm Signal	Vst	12.0±1.2	5±0.5	0	25±5	75 / 75	-	0	1.1	V	Normal
		12.0±1.2	5±0.5	0	25±5	∞ / 75	3.9	5	-	V	SW3 open
		12.0±1.2	5±0.5	0	25±5	75 / ∞	3.9	5	-	V	SW4 open
		12.0±1.2	5±0.5	0	25±5	∞ / ∞	3.9	5	-	V	SW5 open

TEST CIRCUIT:



Note2 : SW1(ON/OFF) Operation is as following.

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

Note3 : SW2(Dimming function) Operation is as following.

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)

Note4 : Please do not connect GND(CN1-3,4) and Vlow(CN2-4).

Note5 : In case of that any one or more of SW3,SW4 and SW5 would be opend, CN01-8 will becom e high impedance in about 3seconds, and will stop opperation same time by its safety function.