

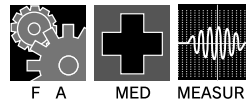
CXA-0308

Dimming/Connector Type

■ Features

- 2-output
 - Applicable panel size*: 10 to 12 inches
 - With brightness control function (Pulse Wide Modulation mode).
 - With shut down function.
 - With a sensing function for running out of lamp (alarm output).
 - In the high-voltage generator(a terminal and a pattern), an anti-dust measure by silicone application is taken.
- (Notice) Applicable panel size becomes a standard.

■ Applications



CXA-0308 Specifications (Please refer to each specification before use)

Electrical Characteristics

Item	Unit	Symbol	Specification			Condition							Remark
			min	typ	max	Vin(V)	Vrmt(V)	Vbr(V)	Rbr(k.Ω)	Ta(°C)	RL(k.Ω)	CL(pF)(*3)	
Output Current	mA	Iout (Maximum dimmer)	4.5	5.0	5.5	12±0.6	5	0	-	23±5	100	5	Voltage dimmer (*1)
			4.5	5.0	5.5	12±0.6	5	-	0	23±5	100	5	Volume dimmer (*1)
			4.3	5.0	5.7	12±1.2	5	0	-	-10 to +70	95 to 105	5	Voltage dimmer (*1)
		Iout (Minimum dimmer)	4.3	5.0	5.7	12±1.2	5	-	0	-10 to +70	95 to 105	5	Volume dimmer (*1)
			1.3	2.0	2.7	12±0.6	5	2.5	-	23±5	95 to 105	5	Voltage dimmer (*1)
			1.3	2.0	2.7	12±0.6	5	-	50	23±5	95 to 105	5	Volume dimmer (*1)
			1.2	2.0	2.8	12±1.2	5	2.5	-	-10 to +70	95 to 105	5	Voltage dimmer (*1)
1.2	2.0	2.8	12±1.2	5	-	50	-10 to +70	95 to 105	5	Volume dimmer (*1)			
Input Current	A	Iin1	-	0.55	0.75	12±0.6	5	0	-	-10 to +70	95 to 105	5	Remote ON
	mA	Iin2	-	-	1	12±0.6	5	0	-	-10 to +70	95 to 105	5	Remote OFF
Frequency	kHz	Freq1	50	55	60	12±0.6	5	0	-	-10 to +70	95 to 105	5	
	Hz	Freq2(Duty frequency)	220	250	280	12±0.6	5	2.5	50	-10 to +70	95 to 105	5	
Open Circuit Voltage	Vrms	Vopen	1200	1250	1500	10.8min.	5	0	-	-10 to +70		∞	Open load
Alarm Signal	V	Vst	4.5	5.0	5.5	12±1.2	5	0	-	-10 to +70		∞	In case of lamp anomaly(*2)
			-	0	0.5	12±1.2	5	0	-	-10 to +70	95 to 105	5	On a normal operation (*2)

(*1) Please refer to the connection diagram for details of a dimming method.

(*2) Please refer to the connection diagram for details of alarm output.

(*3) As equivalent circuit of panel load, connect resistance load (RL) and distributed capacity (CL), and have provided by an electrical characteristic.

Other Specifications

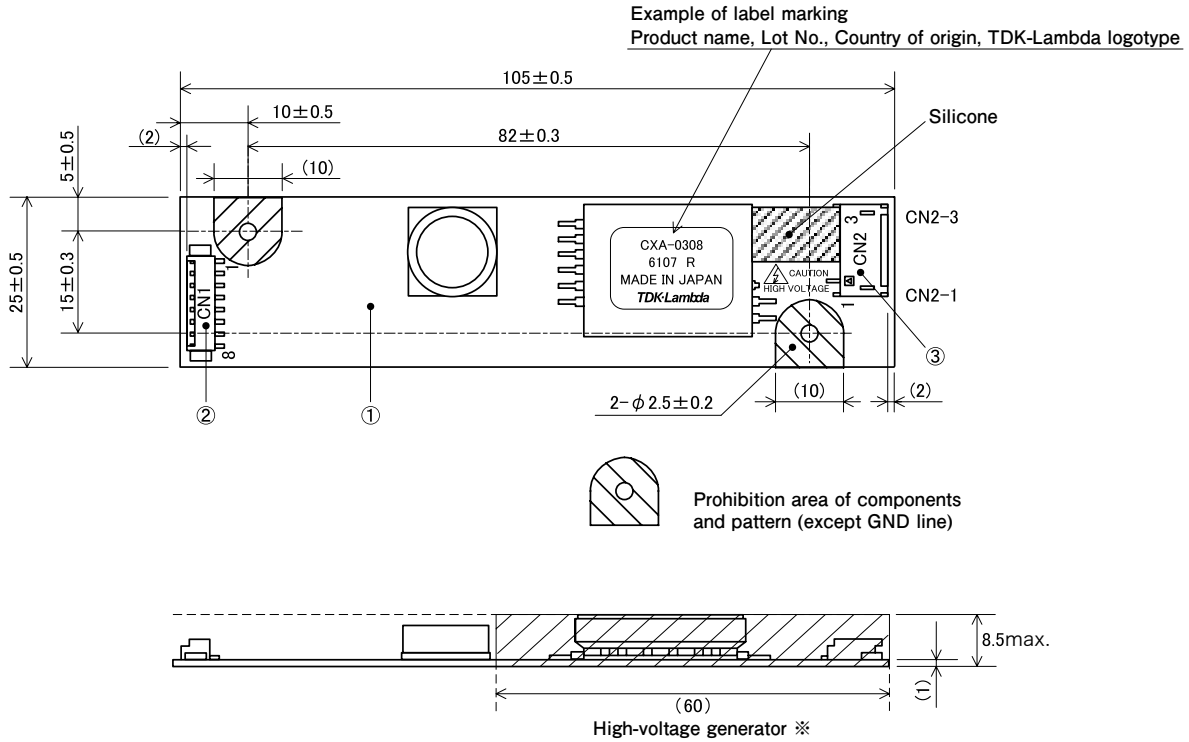
Dimming Function		Yes
Operating Temperature	°C	-10 to +70
Storage Temperature	°C	-30 to +85
Operating Humidity Ratio	RH%	95Max
Safety Standard		-
Weight	g	20
Dimensions(WxDxH)	mm	105x25x8.5 (*4)
Fused Input		Yes
Remote ON / OFF		Yes
Alarm Signal Function		Yes
Shutdown Function		Yes
Silicone Coating on High Voltage Area		Yes

(*4) These dimensions are indicated the maximum only H.Others are typical values.

■ Conformity to RoHS Directive

This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

Outline Drawing



※From high-voltage generator, please secure space distance more than 3mm in top and bottom right and left.

Connector

unit:mm

Connector number	Part number	Model/Material	Quantity	Remarks	Recommended applicable connector
①	Printed circuit board PCB	Composite (CEM-3)	1	UL94V-0 t=1.0	—
②	Input connector CN1	53261-0871	1	Molex Inc.	51021-0800
③	Output connector CN2	SM03 (4.0) B-BHS-1-TB (LF) (SN)	1	JST Mfg. Co., Ltd.	BHR-03VS-1

Terminal Numbers And Functions

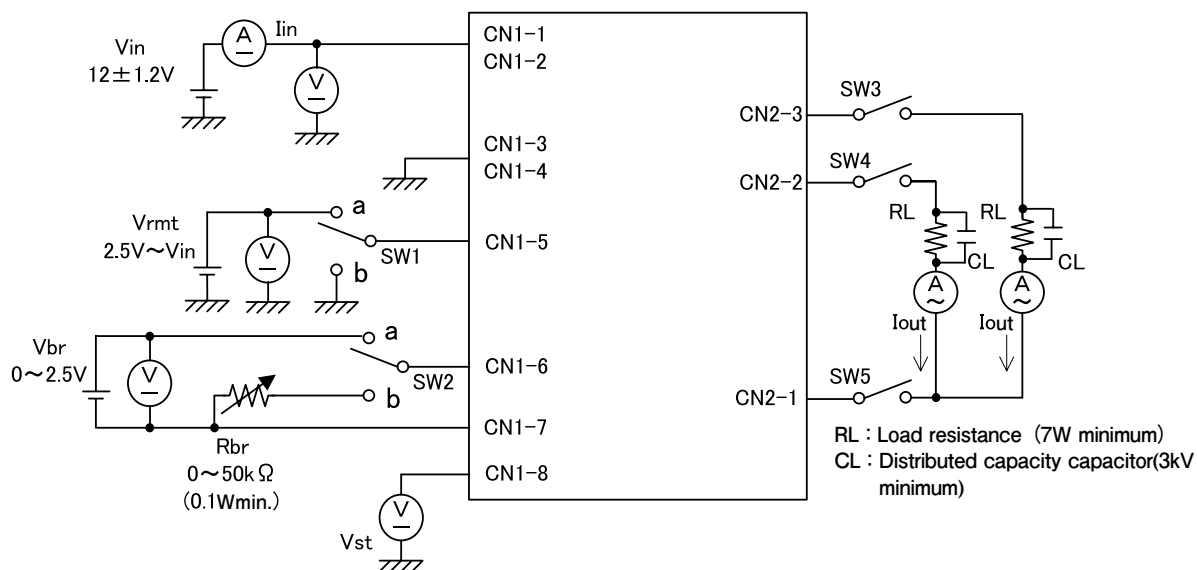
Input side CN1

Terminal number	Symbol	Rated voltage	Remarks
CN1-1	Vin	$12 \pm 1.2V$	Power input
CN1-2			
CN1-3	GND	0V	Ground
CN1-4			
CN1-5	Vrmt	0V/2.5V to Vin	Remote terminal 0 to 0.4V : OFF 2.5 to Vin : ON
CN1-6	Vbr1/Rbr1	0 to 25V/0 to 50kΩ	Dimmer terminal1
CN1-7	Vbr2/Rbr2	GND/0 to 50kΩ	Dimmer terminal2
CN1-8	Vst(Output)	0V/5V	Alarm output Lump open : 5V

Output side CN2

Terminal number	Symbol	Rated voltage	Remarks
CN2-1	V _{LOW}	(2V)	Output 1, 2 return
CN2-2	V _{HIGH2}	600Vrms	Output 2
CN2-3	V _{HIGH1}	600Vrms	Output 1

Connections



Operate as follows by switching SW1.

SW1	Unit operation
a	Operation
b	Does not operate
OPEN	Does not operate

Operate as follows by switching SW2.

SW2	Unit operation
a	Voltage dimmer Vbr=0 to 2.5V
b	Volume dimmer VR=0 to 50kΩ

※ Vbr=0V: Maximum brightness
Rbr=0Ω: Maximum brightness

Protection circuit operation

Load condition	Alarm output (CN1-8) ^{※1}	Shut-down function ^{※2}
Normal condition	0.5V max.	Does not shut down
When 1 load (lamp) is run-out	5±0.5V	Does not shut down
When 2 loads (lamps) are run-out	5±0.5V	Shut down

※1: When more than one of SW3- SW5 in the connection diagram was opened, output alarm signal of 5V.

※2: When all lamps were opened, this inverter has included protective function to stop operation in about 3 seconds.