

CXA-0231

Dimming/Connector Type

■ Features

- 2-output
 - Applicable panel size*: 10 to 15 inches
 - With brightness control function (Pulse Wide Modulation mode).
 - 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-0231 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)	Ta(°C)	RL(kΩ)	
Output Current	mA	Iout	5.5	6.0	6.5	12±0.6	5	0	23±5	95	(*)1
		(Maximum dimmer)	5.3	6.0	6.7	12±2.4	5	0	0 to +70	75 to 112	(*)1
		Iout	0.6	1.5	2.4	12±0.6	5	1.3	23±5	95	(*)1
		(Minimum dimmer)	0.4	1.5	2.6	12±2.4	5	1.3	0 to +70	75 to 112	(*)1
Input Current	A	Iin1	-	0.78	1.4	12±2.4	5	0 to 1.3	0 to +70	75 to 112	Remote ON
	mA	Iin2	-	-	1	12±1.2	0 to 0.4	0 to 1.5	0 to +70	75 to 112	Remote OFF
Frequency	kHz	Freq1	53	60	67	12±2.4	5	0	0 to +70	75 to 112	
	kHz	Freq2	55	62	69	12±2.4	5	0	0 to +70	75 to 112	
	Hz	Freq3(Duty frequency)	225	270	335	12±2.4	5	1.3	0 to +70	75 to 112	
Open Circuit Voltage	Vrms	Vopen	1500	1700	-	12±2.4	5	0	0 to +70	∞	Open load

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

Other Specifications

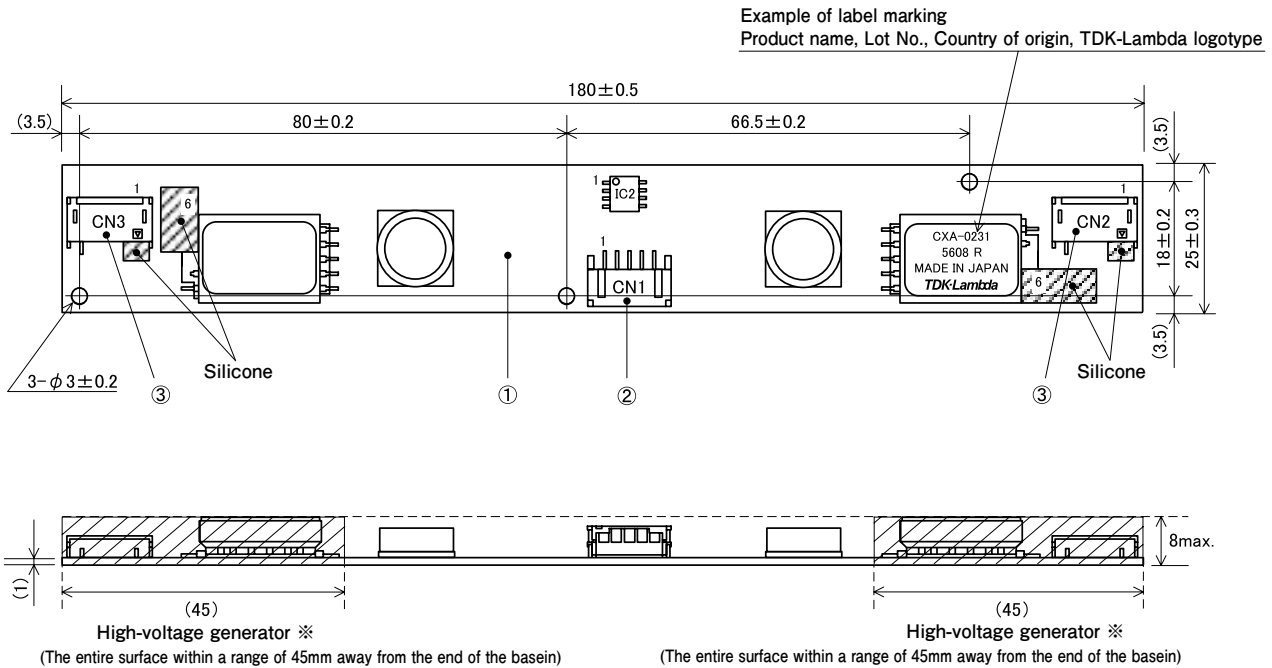
Dimming Function		Yes
Operating Temperature	°C	0 to +70
Storage Temperature	°C	-30 to +85
Operating Humidity Ratio	RH%	95Max
Safety Standard		-
Weight	g	30
Dimensions(WxDxH)	mm	180x25x8 (*2)
Fused Input		Yes
Remote ON / OFF		Yes
Alarm Signal Function		No
Shutdown Function		No
Silicone Coating on High Voltage Area		Yes

(*)2 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.

unit:mm

Connector

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	S5B-PH-SM4-TB(LF) (SN)	1	JST Mfg. Co., Ltd.	PHR-5
③	Output connector CN2,CN3	SM02 (8.0) B-BHS-1-TB (LF) (SN)	2	JST Mfg. Co., Ltd.	BHR-03VS-1

Terminal Numbers And Functions

Input side CN1

Terminal number	Symbol	Rated voltage	Remarks
CN1-1	Vin	12±2.4V	Power input
CN1-2	GND	0V	Ground
CN1-3	Vbr	0 to 1.5V	Dimmer terminal
CN1-4	N.C.	N.C.	
CN1-5	Vrmt	0V/2.5V to Vin	Remote terminal 0 to 0.4V : OFF 2.5 to Vin : ON

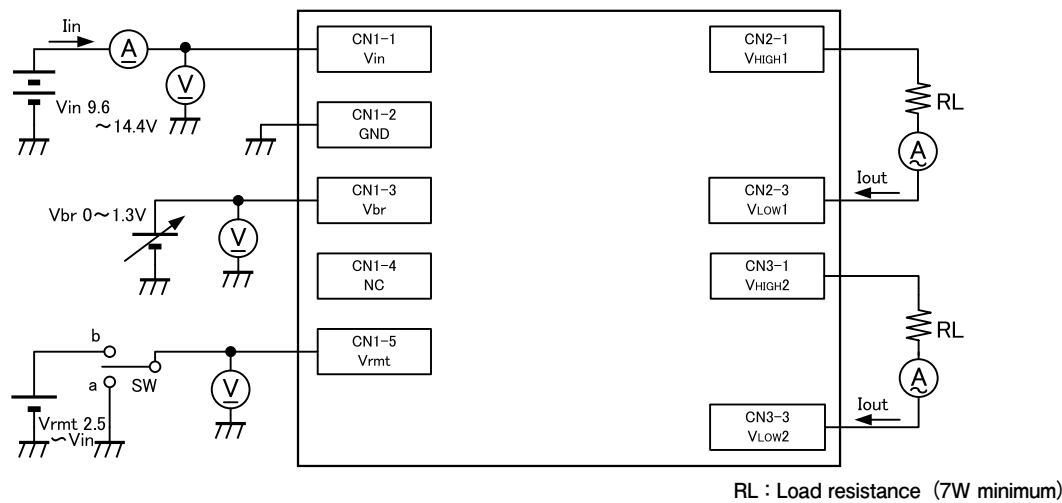
Output side CN2

Terminal number	Symbol	Rated voltage	Remarks
CN2-1	V _{HIGH} 1	670Vrms	Output 1
CN2-2	N.C.	—	—
CN2-3	V _{LOW} 1	(2V)	Output 1 return

Output side CN3

Terminal number	Symbol	Rated voltage	Remarks
CN3-1	$V_{\text{HIGH}2}$	670Vrms	Output 2
CN3-2	N.C.	—	—
CN3-3	$V_{\text{LOW}2}$	(2V)	Output 2 return

Connections



CN1-3 has served as dimmer ability and a remote function, and operates it as follows by changing Vbr.

Vbr	Unit operation
0 to 1.3V	Operation (0V: Maximum brightness, 1.3V: Minimum brightness)
Over1.5V	Operation stopped (Vrmt=5±0.25V)

Operate as follows by switching SW1.

SW		Unit operation
a	0-0.4V	Operation stopped
b	2.5-14.4V	Operation