



EVERBRIGHT LIMITED

EVERBRIGHT DIP LED

Model : **EV-LOJ8**

Company Name:

Confirmed By

DATE:

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※ SPECIFICATIONS

(1) Absolute Maximum Ratings at Ta=25℃

Item	Symbol	Maximum Rating	Unit
Forward Current	IF	30	mA
Pulse Forward Current	IFP	100	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	100	mW
Operating Temperature	Topr	-20~+80	℃
Storage Temperature	Tstg	-25~+85	℃
Soldering Temperature	Tsld	260℃ for 5 Seconds	

* IFP Conditions: Pulse Width ≤10msec. and Duty ≤1/10

(2) Initial Electrical /Optical Characteristics at Ta=25℃

For specification of emitted color(as shown below),please refer to each Part No on the webpage,

Dominant Wavelength

Forward Voltage

Luminous flux

Luminous Intensity

Reverse Current

Viewing Angle

Test condition

★1 $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

★2 Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

★2 Luminous Intensity & Luminous flux Measurement allowance is ±10%

★3 The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

★One delivery will include up to two consecutive color ranks and three luminous intensity ranks of the products . The quantity-ratio of the ranks is decided by Everbright Limited

3. RELIABILITY

(1)TEST ITEMS AND RESULTS

Test Item	Test Conditions	Note	Number of Damaged
Resistance to Soldering Heat	Tsld=260±5℃, 10sec. 3mm from the base of the epoxy bulb	1 time	0/500
Solderability	Tsld=235±5℃, 5sec. (using flux)	1 time over 95%	0/500
Thermal Shock	0℃ ~ 100℃ 15sec. 15sec.	100 cycles	0/500
Temperature Cycle	-40. ~25℃ ~100℃ ~ 25℃ 30min. 5min. 30min. 5min.	100 cycles	0/500
Moisture Resistance Cyclic	25℃ ~ 65℃ ~ -10℃ 90%RH 24hrs./1cycle	10 cycles	0/500
Terminal Strength (bending test)	Load 5N(0.5kgf) 0°~90°~0°bend 2 time	No noticeable damage	0/500
Terminal Strength (pull test)	Load 10N(1kgf) 10±1sec.	No noticeable damage	0/500
High Temperature Storage	Ta=100℃	1000hrs	0/500
Temperature Humidity Storage	Ta= 60℃ RH=90%	1000hrs	0/500
Low Temperature Storage	Ta= -40℃	1000hrs	0/500
Steady State Operating Life	Ta= 25℃ IF=30mA	IF=30mA	0/500
Steady State Operating Life of High Humidity Heat	60℃, RH=90%, IF=20mA	0/500	0/500
Steady State Operating Life of Low Temperature	Ta= -30℃, IF=20mA	1000hrs.	0/500

(2)CRITERIA FOR JUDGING THE DAMAGE

Item	Symbol	Test	Criteria for Judgement	
			Min.	Max.
Forward Voltage	VF	IF=20mA	-	U.S.L.*)× 1.1
Reverse Current	IR	VR=5V	-	U.S.L.*) ×2.0
Luminous Intensity	IV	IF=20mA	L.S.L.**) ×0.7	-

*)U.S.L.:Upper Standard Level

**) L.S.L.:Lower Standard Level