



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-047-048 REV: 1.0

5 mm Backlighting LED

MODEL NO : 473-2SDRC/S400-A6 ECN : Page: 1/4

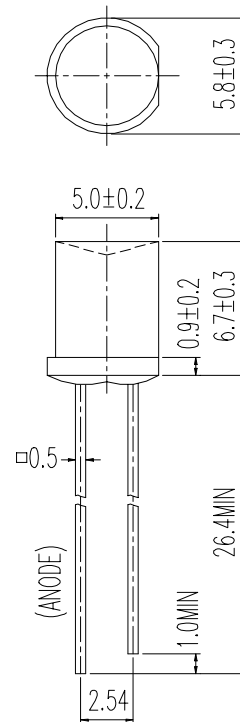
■ Features :

- High intensity output and low cost.
- With small flange.
- Low current requirement.
- Very wide viewing angle.

■ Descriptions :

- The shape of this series is round.
- General application is for indication, illumination, etc.
- The LED lamps are available with a of different colors, light intensity, and various colors. etc.

■ Package Dimensions:



■ Applications :

- TV Set
- Monitor
- Telephone
- Computer

■ Notes :

1. All dimensions are millimeters.
2. An epoxy meniscus may extend about 1.5mm(0.059") down to the lead.

PART NO	Chip		Lens Color
	Material	Emitted Color	
473-2SDRC/S400-A6	AlGaInP	Super Deep-Red	Water Clear

B992111,991135

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■ Absolute Maximum Ratings at T_A = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	If	40	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Power Dissipation	Pd	100	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	If(Peak)	180	mA
Reverse Voltage	Vr	5	V

■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	----- 16	2.0 25	----	mcd	If=2mA If=20mA
Viewing Angle	2 θ 1/2		130	----	deg	If=20mA
Peak Wavelength	λ p	----	650	----	nm	If=20mA
Dominant Wavelength	λ d	----	639	---	nm	If=20mA
Spectrum Radiation Bandwidth	△ λ	----	20	----	nm	If=20mA
Forward Voltage	Vf	-----	2.0	2.4	V	If=20mA
Reverse Current	Ir	----	----	10	μ A	Vr=5V



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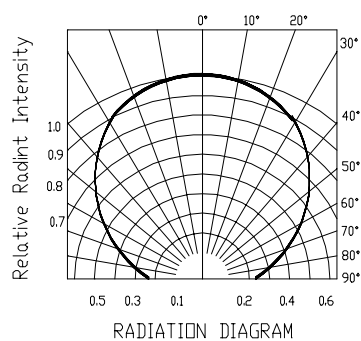
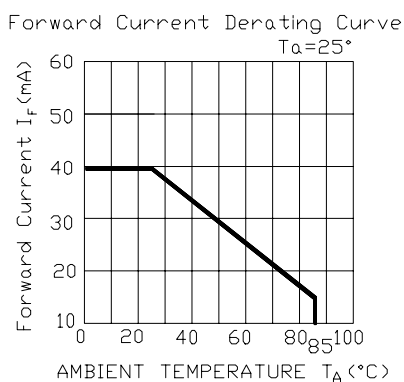
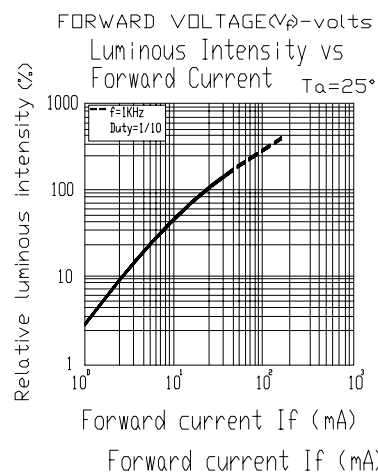
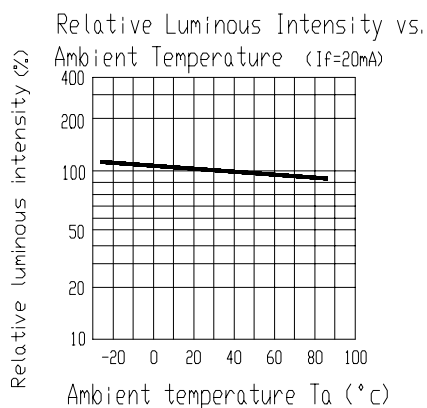
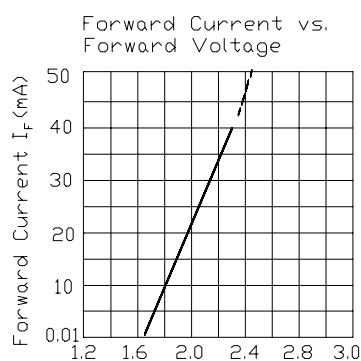
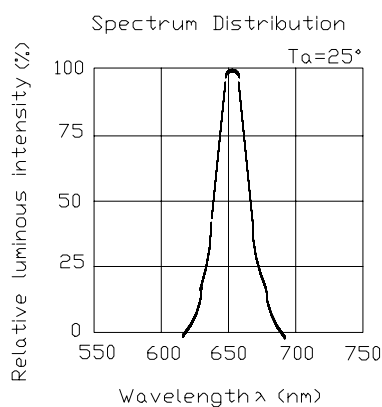
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Typical Electro-Optical Characteristic Curves





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■ Reliability test items and conditions

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Soldering Heat	TEMP : 260°C ± 5 °C	10±1 SEC	76 Pcs	0/1
2	Solderability	TEMP : 230°C ± 5 °C	5±1 SEC	76 Pcs	0/1
3	Temperature Cycle	H : +85°C 30min ↓ 5 min L : -55°C 30min	50 CYCLE	76 Pcs	0/1
4	Thermal Shock	H : +100°C 5min ↓ 10 sec L : -10°C 5min	50 CYCLE	76 Pcs	0/1
5	High Temperature Storage	TEMP : 100°C	1000 HRS	76 Pcs	0/1
6	Low Temperature Storage	TEMP : -55°C	1000 HRS	76 Pcs	0/1
7	DC Operating Life	If = 20 mA	1000 HRS	76 Pcs	0/1
8	High Temperature / High Humidity	85°C/85% RH	1000 HRS	76 Pcs	0/1