



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-042-022 REV: 1.1

5 mm Cylindrical Shape LED

PART NO : 423VGC ECN : Page: 1/4

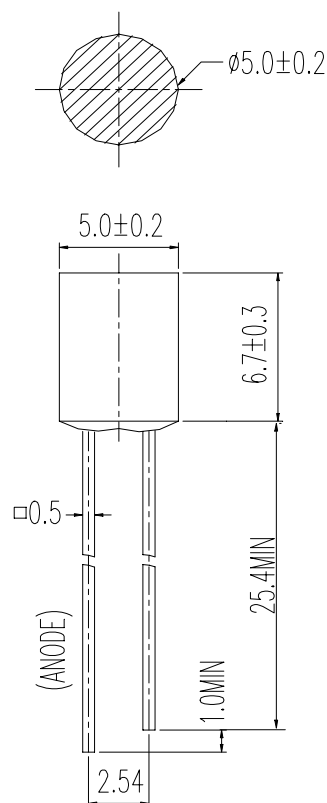
■ Features :

- High light output.
- I.C compatible.
- Long life-solid state reliability.
- Low current requirement.

■ Descriptions :

- The shape of this series is cylindrical.
- The series is specially designed for applications requiring higher brightness
- The LED lamps are available with different colors, intensity, epoxy colors, etc.

■ Package Dimensions:



■ Applications :

- TV Set
- Monitor
- Telephone
- Computer

■ Notes :

- 1.All dimensions are in millimeters.
- 2.Epoxy meniscus may extend about 1.5mm(0.059") down to the lead.
- 3.Tolerances unless dimension ± 0.25 mm

PART NO	Chip		Lens Color
	Material	Emitted Color	
423VGC	GaP	Green	Water Clear

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■ Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	IF	30	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)	160	mA
Reverse Voltage	VR	5	V

■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	16	25	---	mcd	IF=20mA
Viewing Angle	2 θ 1/2	----	90	----	deg	IF=20mA
Peak Wavelength	λ p	----	570	----	nm	IF=20mA
Dominant Wavelength	λ d	----	571	----	nm	IF=20mA
Spectrum Radiation Bandwidth	△ λ	----	30	----	nm	IF=20mA
Forward Voltage	VF	1.7	2.1	2.4	V	IF=20mA
Reverse Current	IR	----	----	10	μ A	VR=5V



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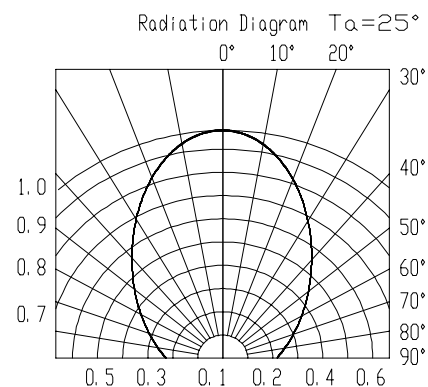
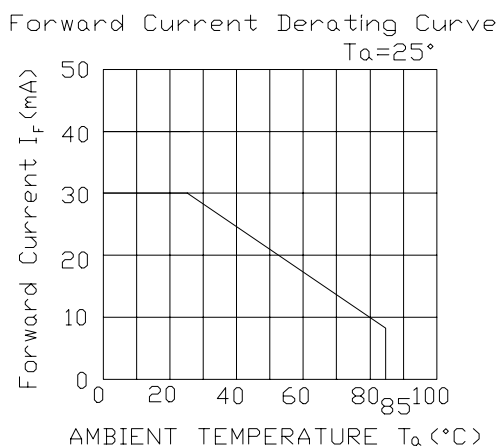
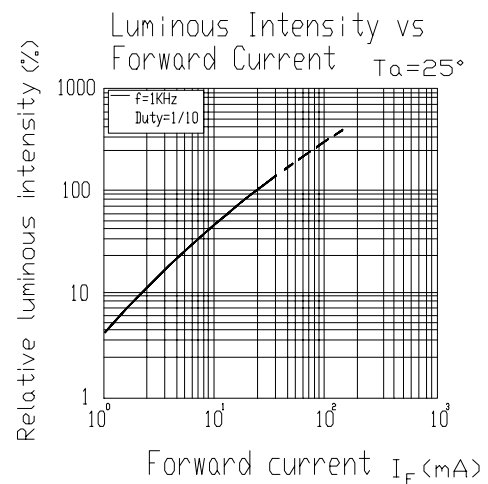
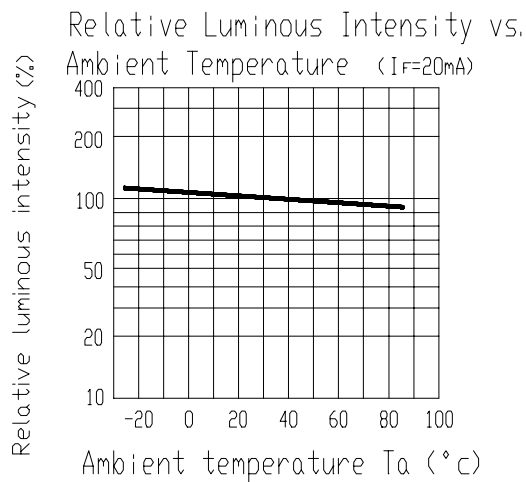
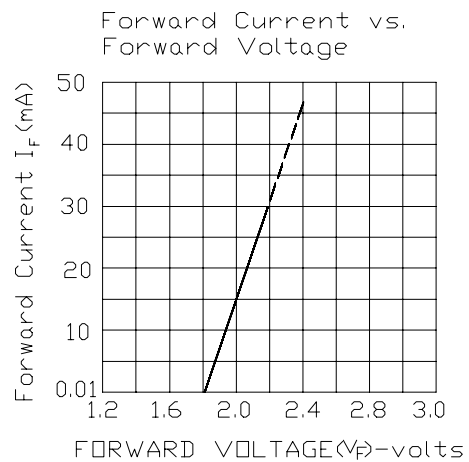
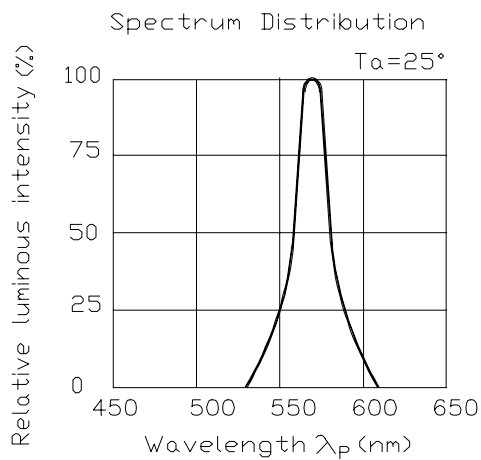
PART NO : 423VGC

ECN :

Page:

3/4

■ Typical Electro-Optical Characteristic Curves





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PART NO : 423VGC ECN : Page: 4/4

■ Reliability test items and conditions

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