



1.8mm Round Subminiature"Z-Bend" Axial LEDs



EVERLIGHT ELECTRONICS CO.,LTD.

DEVICE NUMBER : DLE-912-078 REV : 1.2

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1.8mm Round Subminiature "Z-Bend" Axial LEDs

PART NO.: 91-21VGC/TR10

■ Absolute Maximum Ratings at T_A = 25°C

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _R	5	V
Forward Current	I _F	30	mA
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +100	°C
Soldering Temperature	Tsol	260 ± 5 for 5 sec	°C
Power Dissipation	Pd	100	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	I _F (Peak)	160	mA

■ Electronic Optical Characteristics :

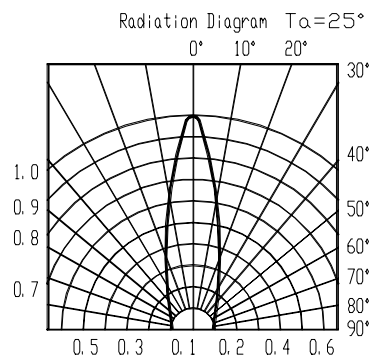
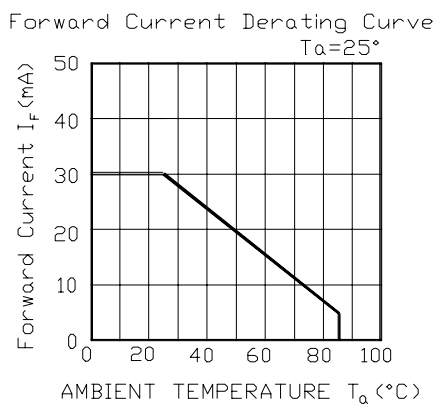
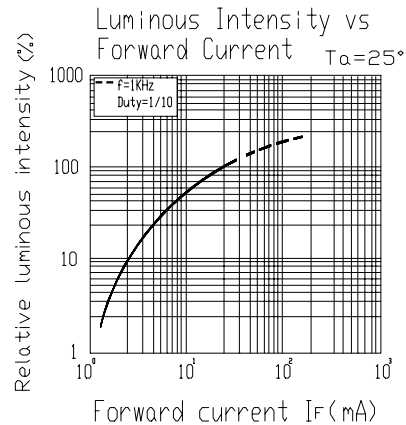
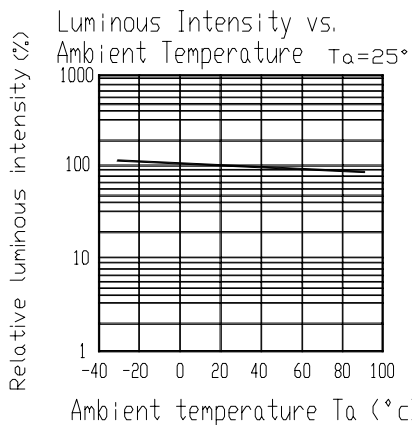
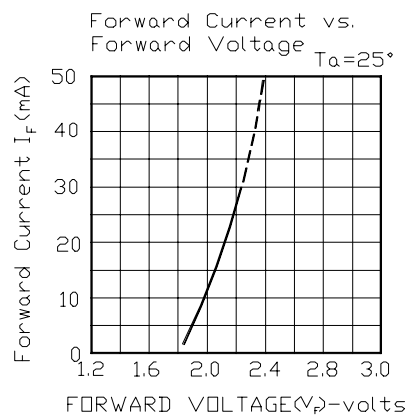
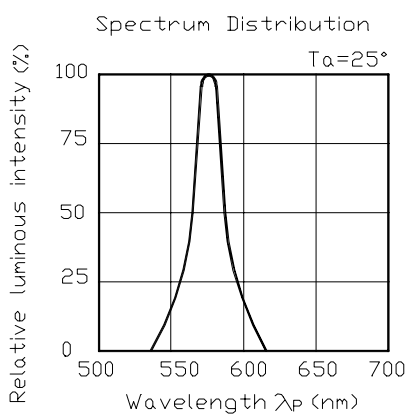
Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous Intensity	I _v	30	50	----	mcd	I _F = 20mA
Viewing Angle	2 θ 1/2	----	25	----	deg	
Peak Wavelength	λ _p	----	570	----	nm	
Dominant Wavelength	λ _d	----	571	----	nm	
Spectrum Radiation Bandwidth	△ λ	----	30	----	nm	
Forward Voltage	V _F	1.7	2.1	2.4	V	
Reverse Current	I _R	----	----	10	μ A	V _R =5V



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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	Solder Heat	TEMP : 260°C ± 5 °C	5 SEC	76 PCS	0/1
2	Temperature Cycle	H : +85°C 30 min ↕ L : -55°C 30 min 5 min	50 CYCLE	76 PCS	0/1
3	Thermal Shock	H : +100°C 5 min ↕ L : -10°C 30 min 10 sec	50 CYCLE	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	I _F = 20 mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C / 85% R.H.	1000 HRS	76 PCS	0/1