



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-125-047 REV: 1.2

3.0mm Bi-Color (Multi-Color)With common Cathode(2mm Lead pitch) LED, T-1

MODEL NO : 1259-7VRVGW ECN : _____ Page: 1/5

■ Features :

- Two chips are matched for uniform light output, wide viewing angle
- Long life-solid state reliability
- I.C. compatible/low power consuming

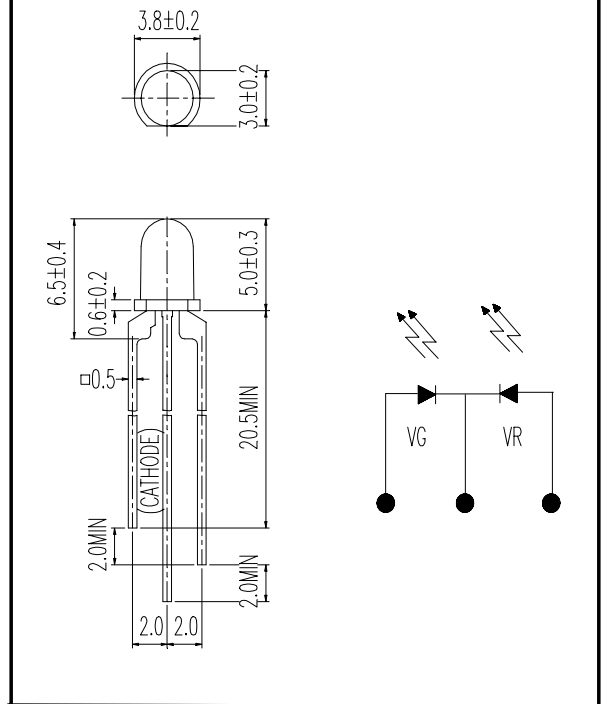
■ Descriptions :

- The 1259-7 LED lamp contain two integral chips and are available as both bicolor and bipolar types.
- The Hi-Eff Red and Green light is emitted by diodes of GaAsP/GaP and GaP respectively.
- Type of bipolar lamps are both white diffused and color diffused while the bicolor are white diffused.

■ Applications :

- TV set
- Monitor
- Telephone
- Computer

■ Package Dimensions:



■ NOTES :

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

PART NO	CHIP		Lens Color
	Material	Emitted Color	
1259-7VRVGW	GaAsP/GaP	Hi-Eff Red	White Diffused
	GaP	Green	

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<http://www.everlight.com>



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■ Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	If	VR 30	mA
		VG 30	
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Power Dissipation	Pd	VR 100	mW
		VG 100	
Peak Forward Current (Duty 1/10 @ 1KHZ)	If(Peak)	VR 160	mA
		VG 160	
Reverse Voltage	Vr	5	V

■ Electronic Optical Characteristics :

Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous Intensity	Iv VR	15	25	/	mcd	If= 20 mA
	VG	25	40	/		
Viewing Angle	2θ 1/2	/	45	/	deg	If= 20 mA
Peak Wavelength	λp VR	/	640	/	nm	If= 20 mA
	VG	/	570	/		
Dominant Wavelength	λd VR	/	625	/	nm	If= 20 mA
	VG	/	571	/		
Spectrum Radiation Bandwidth	Δλ VR	/	45	/	nm	If= 20 mA
	VG	/	30	/		
Forward Voltage	Vf VR	1.7	2.0	2.4	V	If= 20 mA
	VG	1.7	2.1	2.4		
Reverse Current	Ir	/	/	10	μ A	Vr= 5 V



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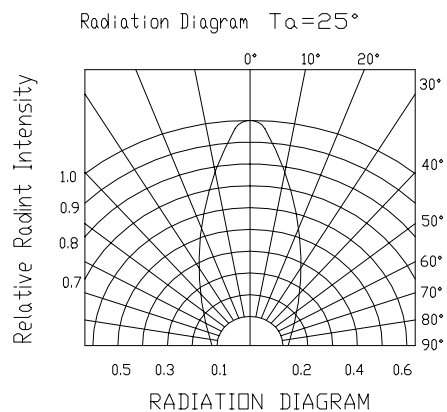
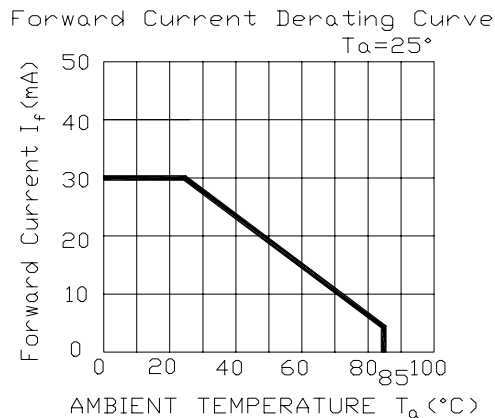
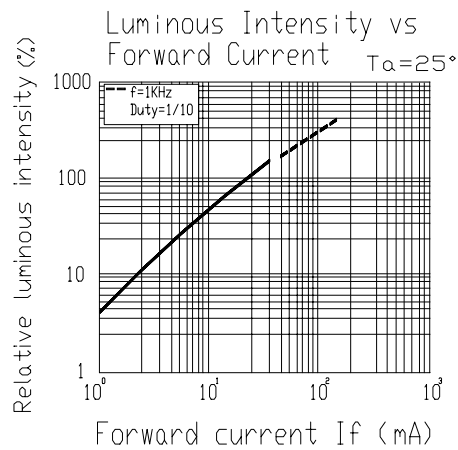
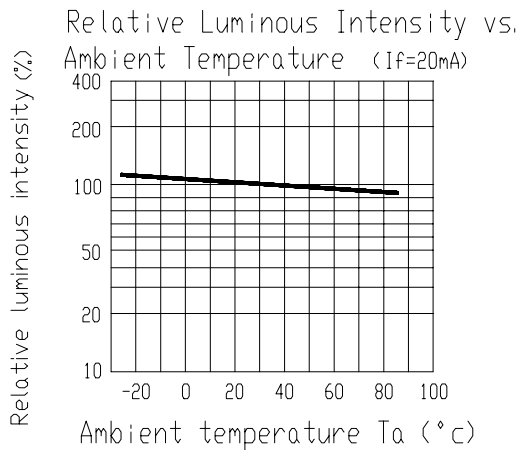
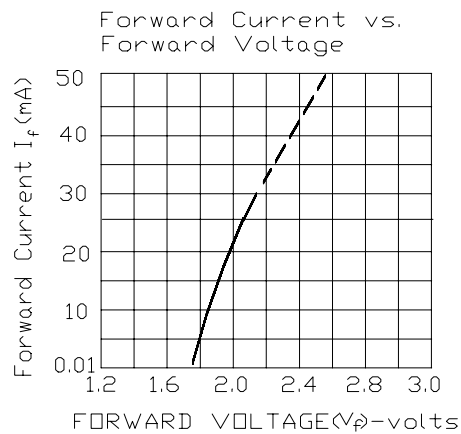
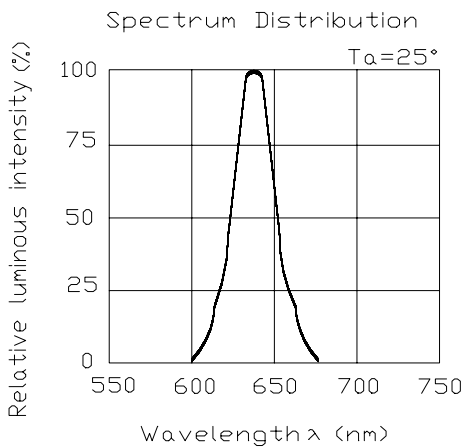
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Typical Electro-Optical Characteristic Curves

VR





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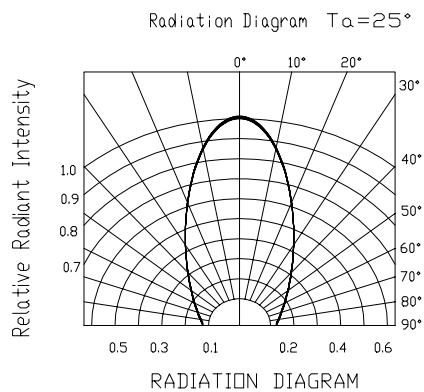
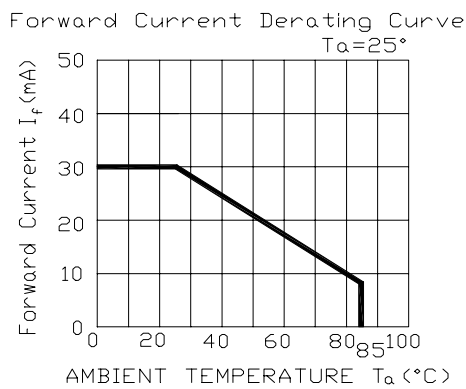
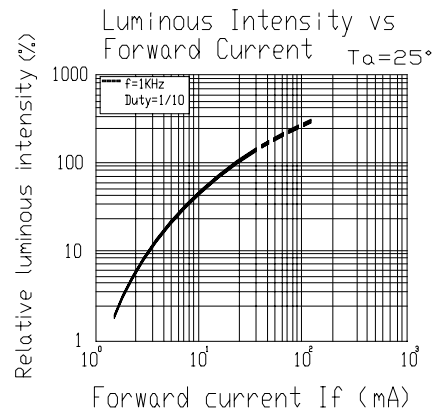
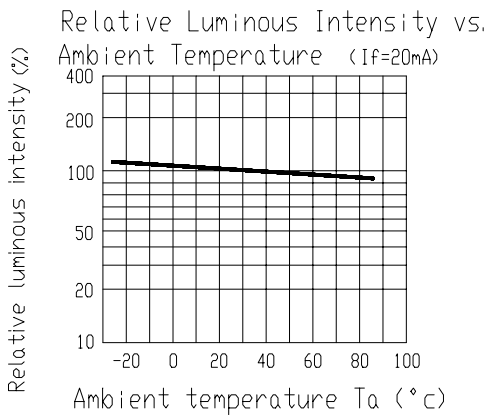
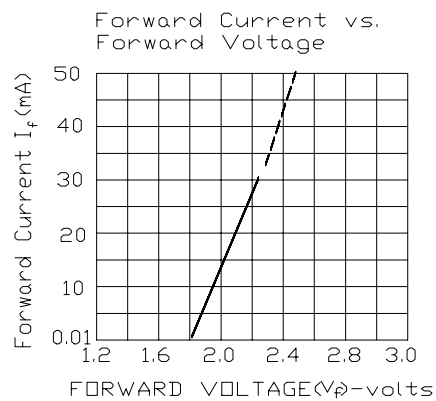
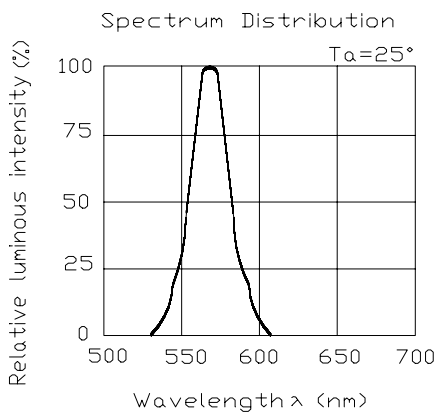
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■ Typical Electro-Optical Characteristic Curves

VG





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■ Reliability test item and condition

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 30min ∫ 5 min L : -55°C 30min	50 CYCLE	76 Pcs	0/1
3	Thermal Shock	H : +100°C 5min ∫ 10 sec L : -10°C 5min	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	If = 20 mA	1000 HRS	76 Pcs	0/1
7	High Temperature / High Humidity	85°C/85% RH	1000 HRS	76 Pcs	0/1