EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-033-263 REV: 1.1

5.0mm Bi-Color (Multi-Color)With common Cathode(0.1"Lead Pitch)LEDs,T-1 3/4

MODEL NO : 339-1VRVGC ECN : Page: 1/5

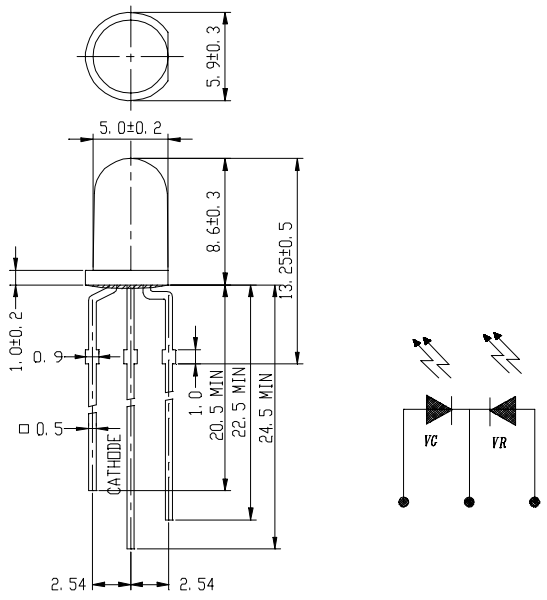
■ Features :

- Two chips are matched for uniform light output, wide viewing angle
- Long life-solid state reliability
- IC compatible/low power consumption

■ Descriptions :

- The 339-1 LED lamp contains two integral chips and is available as both bicolor and bipolar types.
- The Hi-Eff Red and Green Light are emitted by diodes of GaAsP/GaP and GaP respectively.

■ Package Dimensions:



■ Applications :

- TV set
- Monitor
- Telephone
- Computer

■ Notes :

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

PART NO	Chip		Lens Color
	Material	Emitted Color	
339-1VRVGC	GaAsP/GaP	Hi-Eff Red	Water Clear
	GaP	Green	

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■ Absolute Maximum Ratings at Ta = 25℃

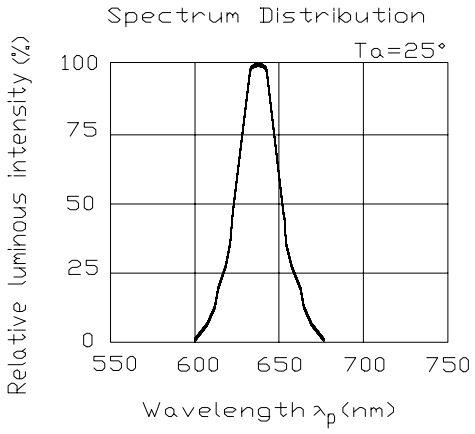
Parameter	Symbol	Rating		Unit
Forward Current	I_F	VR	25	mA
		VG	30	
Operating Temperature	Topr	-40 to +85		℃
Storage Temperature	Tstg	-40 to +100		℃
Soldering Temperature	Tsol	260 ± 5		℃
Power Dissipation	Pd	VR	85	mW
		VG	100	
Peak Forward Current (Duty 1/10 @ 1KHZ)	$I_{F(Peak)}$	VR	160	mA
		VG	160	
Reverse Voltage	V_R	5		V

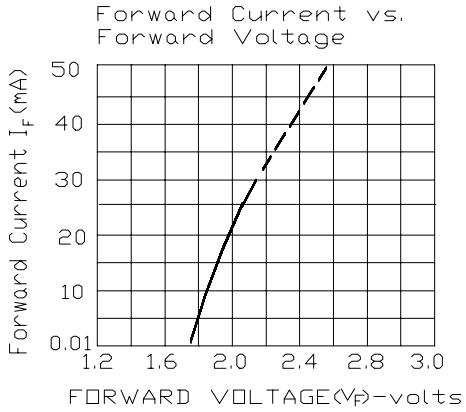
■ Electronic Optical Characteristics :

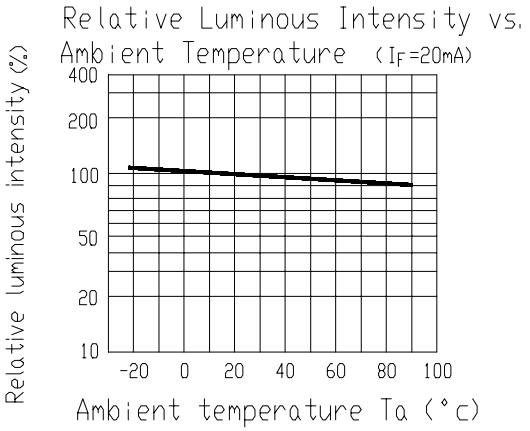
Parameter	Symbol		Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	VR	25	40	／	mcd	I_F= 20 mA
		VG	40	63	／		
Viewing Angle	2θ 1/2		／	30	／	deg	I_F= 20 mA
Peak Wavelength	λp	VR	／	640	／	nm	I_F= 20 mA
		VG	／	625	／		
Dominant Wavelength	λd	VR	／	570	／	nm	I_F= 20 mA
		VG	／	571	／		
Spectrum Radiation Bandwidth	△λ	VR	／	30	／	nm	I_F= 20 mA
		VG	／	30	／		
Forward Voltage	V_F	VR	1.7	2.0	2.4	V	I_F= 20 mA
		VG	1.7	2.1	2.4		
Reverse Current	I_R		／	／	10	μA	V_R= 5 V

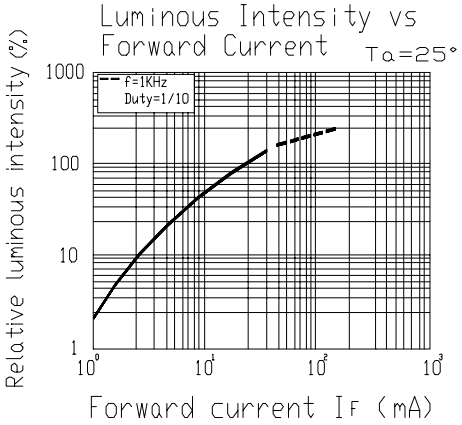
■ Typical Electro-Optical Characteristic Curves

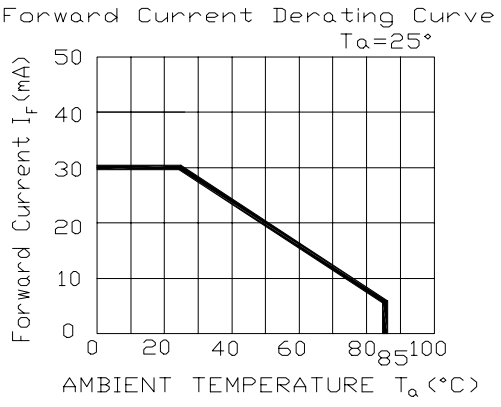
VR

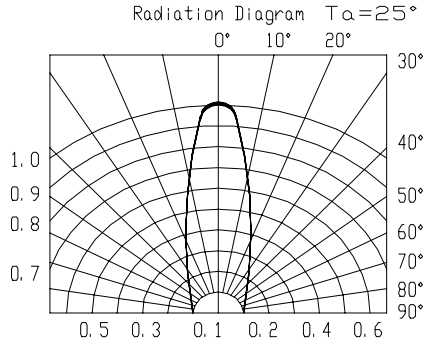












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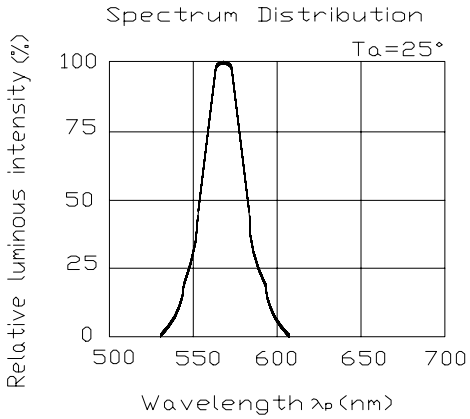
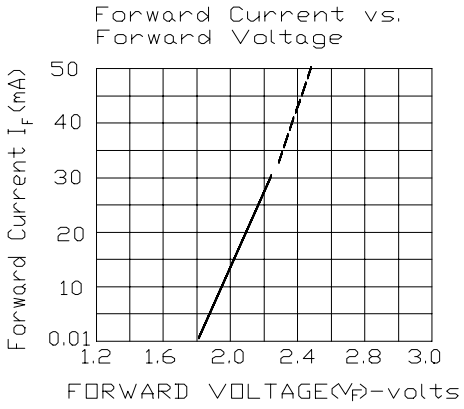
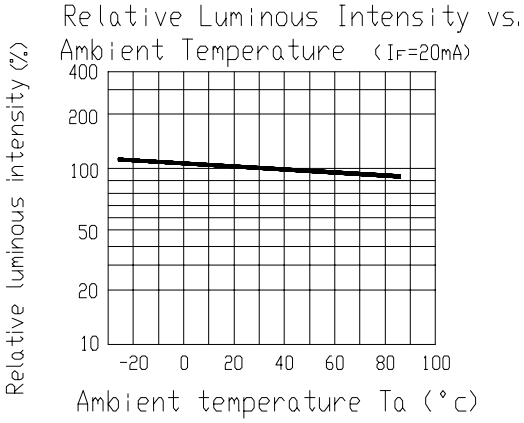
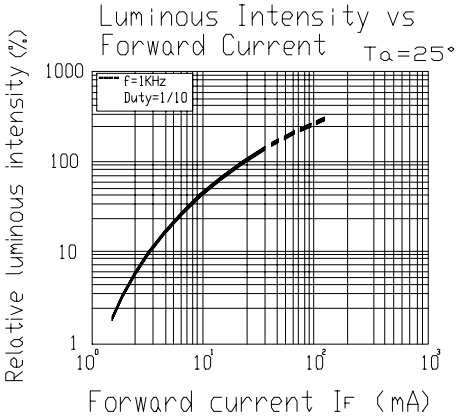
■ Typical Electro-Optical Characteristic Curves

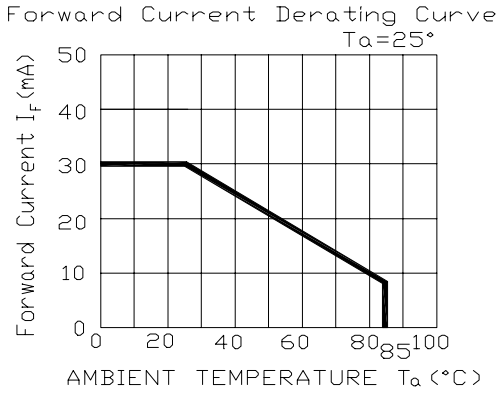
VG

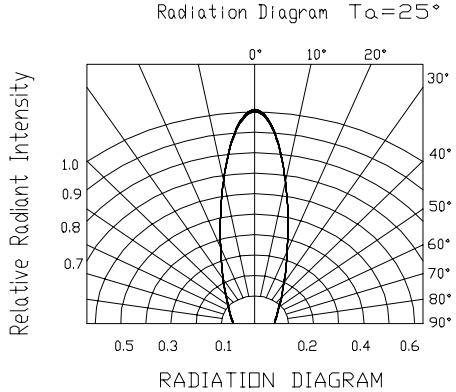












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■ Reliability test items and conditions:

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Solder Heat	TEMP : 260℃ ± 5 ℃	5 SEC	76 PCS	0/1
2	Temperature Cycle	H : +85℃ 30min ∫ 5 min L : -55℃ 30min	50 CYCLES	76 PCS	0/1
3	Thermal Shock	H : +100℃ 5min ∫ 10 sec L : -10℃ 5min	50 CYCLES	76 PCS	0/1
4	High Temperature Storage	TEMP : 100℃	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -55℃	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℃/85% RH	1000 HRS	76 PCS	0/1