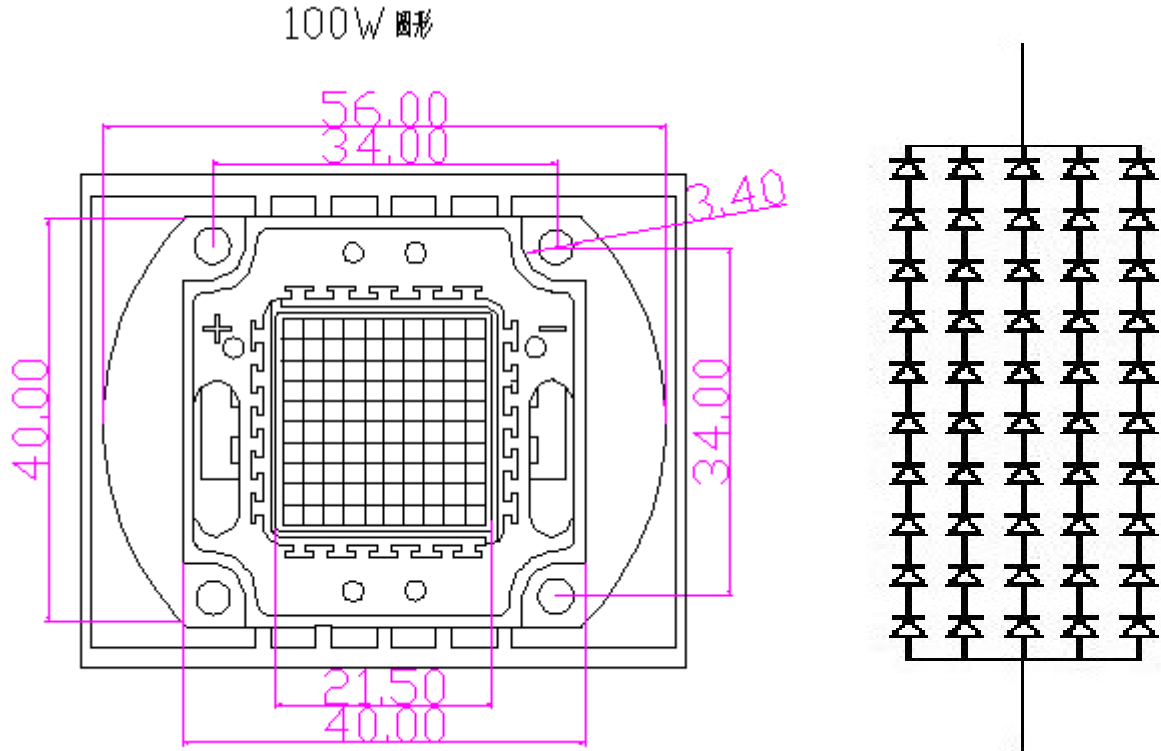


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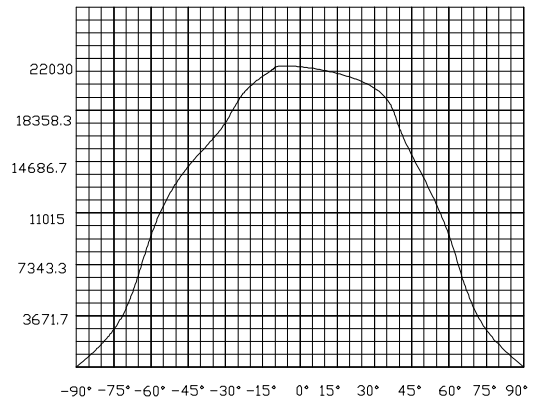
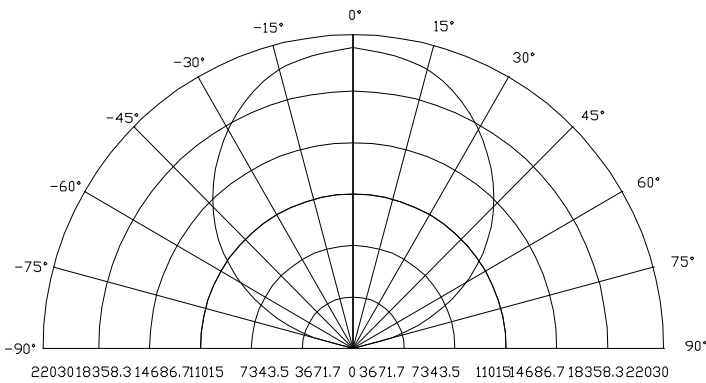
■ Package Dimensions



Notes:

All dimensions in mm tolerance is ± 0.1 mm unless otherwise noted.

■ Radiation Pattern





50w uv led high power led

SPECS NO: GM-20101109-14

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■ Absolute Maximum Ratings (T_a = 25°C)

Items	Symbol	Absolute maximum Rating	Unit
DC Forward Current	I _F	1750	mA
Peak Forward Current*	I _{FP}	3000	mA
Power Dissipation	P _D	50	W
Reverse Voltage	V _R	50	V
LED Junction Temperature	T _J	120	°C
Operation Temperature	T _{opr}	-20 ~ +75	°C
Storage Temperature	T _{stg}	-30 ~ +80	°C
Manual Soldering Temperature	TSOL	350°C± 10°C For 3~5 Seconds	°C
ESD Sensitivity	ESD	2000	V

*pulse width ≤0.1msec duty ≤1/10

■ Typical Electrical & Optical Characteristics (T_a = 25°C)

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F =1750mA	30.00		34.00	V
Reverse Current	I _R	V _R = 50V			10	mμA
Wavelength	Nm	I _F =1750mA	395		405	nm
Luminous Flux	Φ _v	I _F =1750mA	500		750	lm
50% Power Angle	2θ _½	I _F =1750mA		120		deg
Thermal Resistance (Junction to Board)	R _{J-B}	I _F =1750mA		8		°C/W

■ Important Notes:

- 1) All ranks will be included per delivery, rank ratio will be determined by GMKJ.
- 2) Tolerance of measurement of V_F is ±0.1 V.
- 3) Tolerance of measurement of the color coordinates X,Y is ±0.0015.
- 4) Tolerance of measurement of luminous intensity is ±15%.
- 5) As we are making continuous efforts to improve the performance of LED, Specifications are subject to change without notice.
- 6) Information is tentative and subject to change without notice.



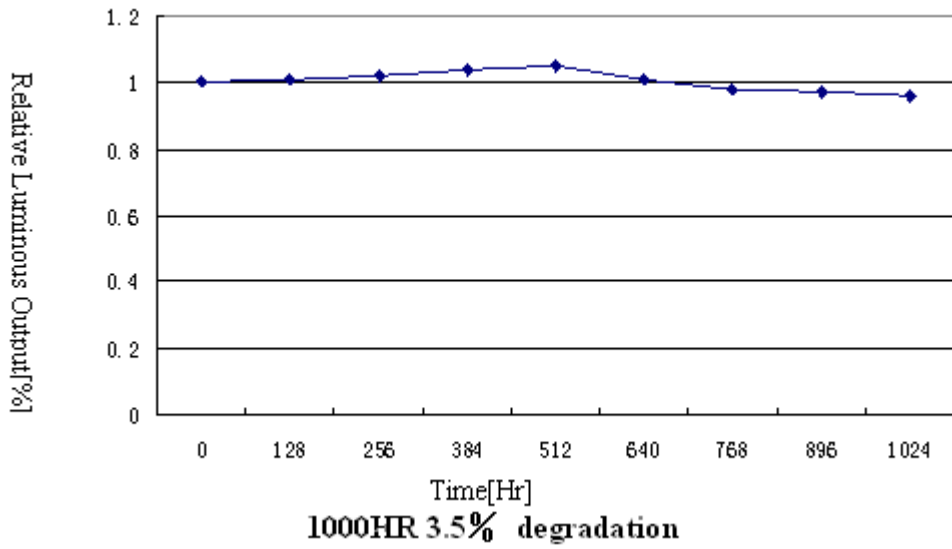
50w uv led high power led

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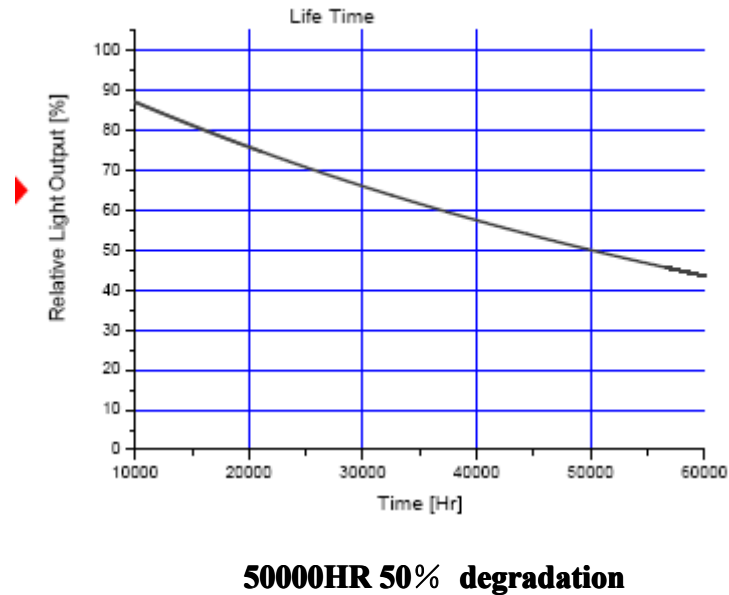
SPECS NO: GM-20101109-14

■ Room Temperature Operating Life Reliability Test Result

($T_a=25^\circ\text{C}$, $I_f=3.5\text{A}$) Use SSC circuit board & heat sink ($T_j=50^\circ\text{C}$)



■ Life Time graph





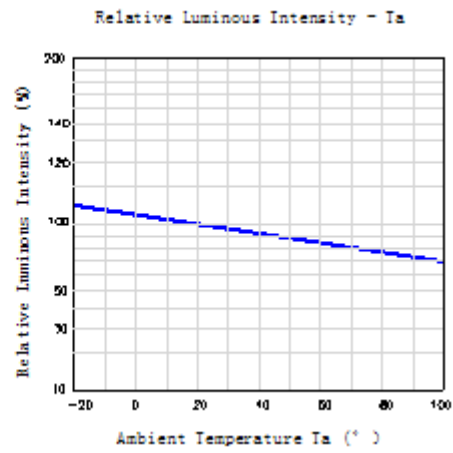
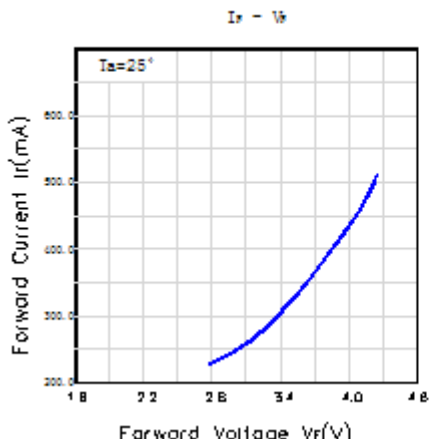
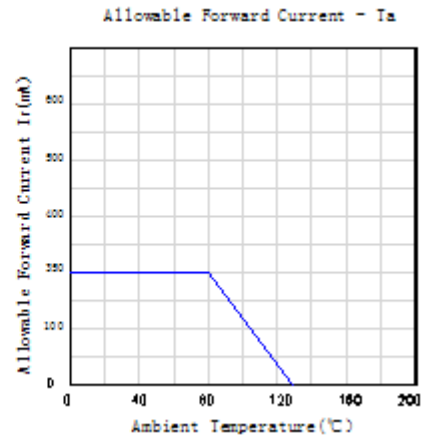
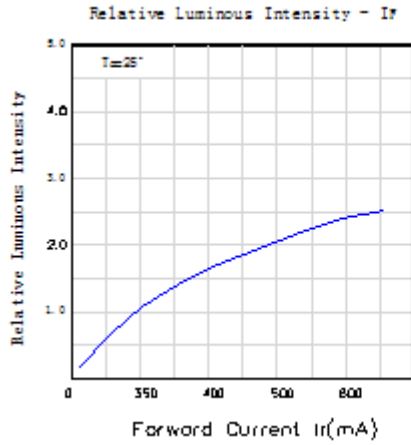
50w uv led high power led

SPECS NO: GM-20101109-14

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Mass Production	●

Typical Optical/Electrical Characteristics Curves

($T_a=25^\circ\text{C}$ Unless Otherwise Noted, For Single chip)



Spectrum Distribution

