



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-038-045 REV: 2.1

T-1 3/4(5mm) High Intensity LEDs

PART NO : 383UBC/C430 ECN : Page: 2/4

■ 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
Electrostatic Discharge	ESD	1000	V
Power Dissipation	Pd	140	mW
Peak Forward Current(Duty 1/10 @ 1KHz)	IF(Peak)	70	mA
Reverse Voltage	VR	5	V

■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	1250	1630	-----	mcd	IF=20mA
Viewing Angle	2θ 1/2	----	12	----	deg	IF=20mA
Peak Wavelength	λ p	----	428	----	nm	IF=20mA
Dominant Wavelength	λ d	----	466	----	nm	IF=20mA
Spectrum Radiation Bandwidth	△ λ	---	65	----	nm	IF=20mA
Forward Voltage	VF	----	3.8	4.5	V	IF=20mA
Reverse Current	IR	----	----	50	μ A	VR=5V



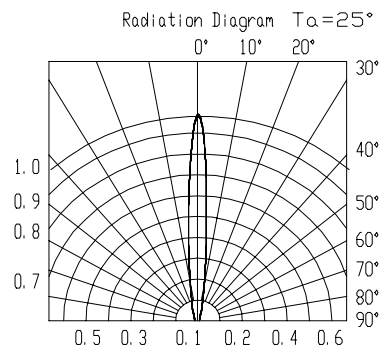
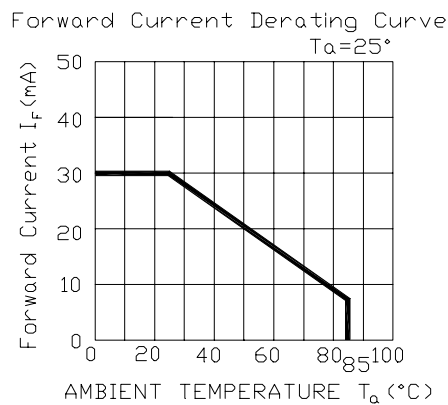
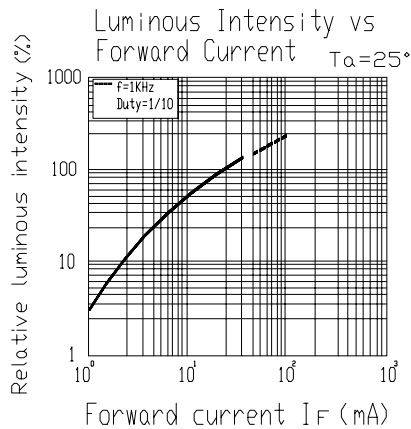
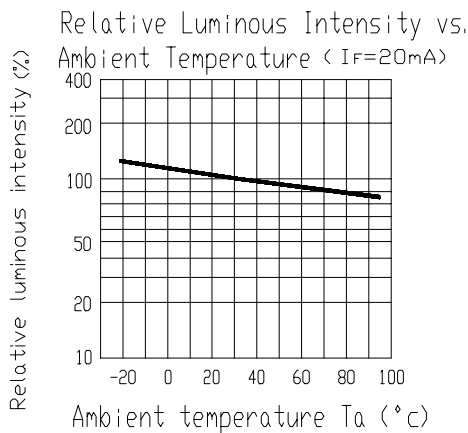
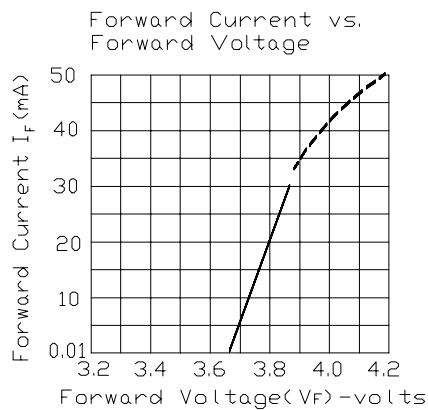
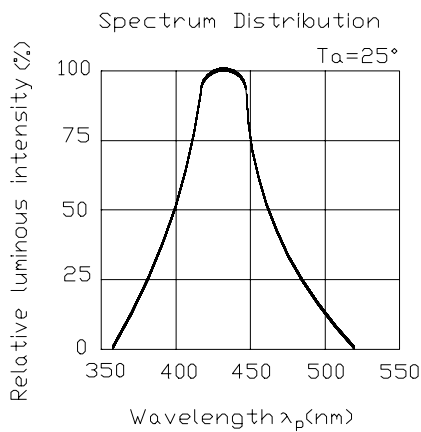
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■ Typical Electro-Optical Characteristic Curves





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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 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