

Device Number : DLE-033-220 REV: 1.3

T-1 3/4 (5mm) Round Shape LEDs

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■ Absolute Maximum Ratings at T_A = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	I _f	30	mA
Operating Temperature	T _{opr}	-40 to +85	°C
Storage Temperature	T _{stg}	-40 to +100	°C
Electrostatic Discharge	ESD	1000	V
Soldering Temperature	T _{sol}	260 ± 5	°C
Power Dissipation	P _d	140	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	I _f (Peak)	70	mA
Reverse voltage	V _r	5	V

■ Electronic Optical Characteristics :

Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous intensity	I _v	250.0	400.0	-----	mcd	I _f =20mA
Viewing Angle	2 θ 1/2	----	10	----	deg	I _f =20mA
Peak Wavelength	λ _p	----	430	----	nm	I _f =20mA
Dominant Wavelength	λ _d	464	----	468	nm	I _f =20mA
Spectrum Radiation Bandwidth	Δ λ	----	65	-----	nm	I _f =20mA
Forward Voltage	V _f	----	3.8	4.5	V	I _f =20mA
Reverse Current	I _r	----	----	10	μ A	V _r =5V

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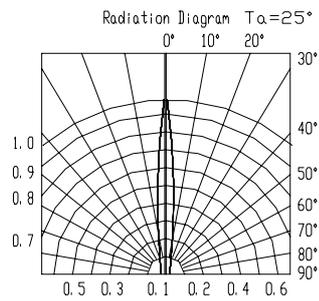
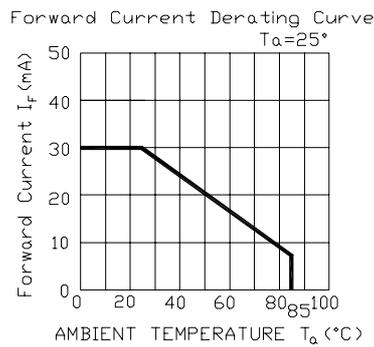
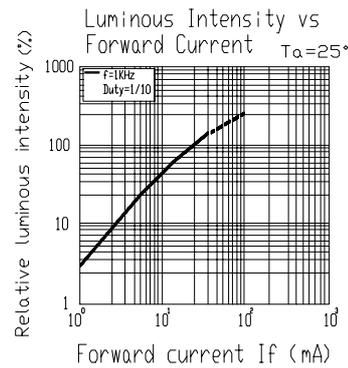
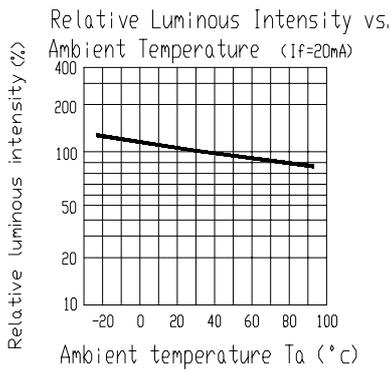
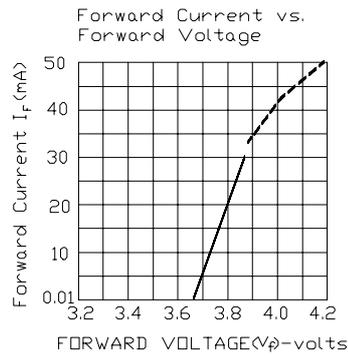
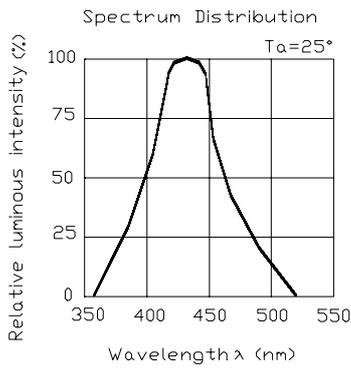
T-1 3/4(5mm) High Intensity LEDs

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■ Typical Electro-Optical Characteristic Curves



Device Number : DLE-033-220REV: 1.3

T-1 3/4 (5mm) Round Shape LEDs

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■ Reliability test items and conditions

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Soldering Heat	TEMP : 260°C ± 5 °C	5SEC	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