



2.0*5.0mm Rectangle Type LED Lamps

MODEL NO : 523ID ECN : Page: 1/4

■ Features :

- Choice of various viewing angles
- Available on tape and reel
- Reliable and robust

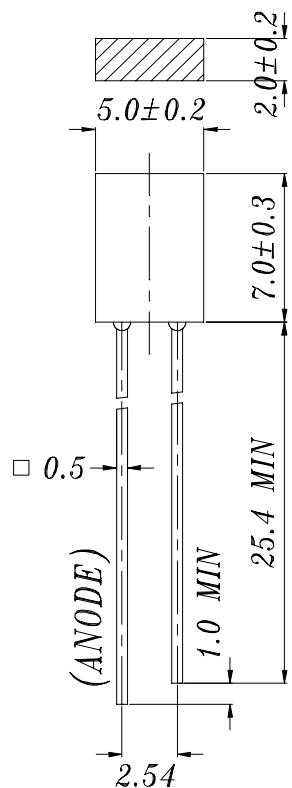
■ Description :

- The series is specially designed for applications requiring higher brightness than that achievable with standard lamp.
- The LED lamp are available with different colors, light intensities, epoxy colors, etc.

■ Applications :

- TV set
- Monitor
- Telephone
- Computer

■ Package Dimension:



■ NOTES :

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

PART NO	CHIP		Lens Color
	Material	Emitted Color	
523ID	GaAsP/GaP	Hi-Eff Red	Red Diffused

DESIGNER	CHECKER	APPROVER

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MODEL NO : 523ID ECN : _____ Page: 2/4

■ Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

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

■ Electronic Optical Characteristics :

Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous intensity	Iv	2.00	3.00	/	mcd	If= 10 mA
Viewing Angle	$2\theta_{1/2}$	/	180	/	deg	If= 20 mA
Peak Wavelength	λ_p	/	635	/	nm	If= 20 mA
Dominant Wavelength	λ_d	/	625	/	nm	If= 20 mA
Spectrum Radiation Bandwidth	$\Delta\lambda$	/	45	/	nm	If= 20 mA
Forward Voltage	Vf	1.70	2.00	2.60	V	If= 20 mA
Reverse Current	Ir	/	/	10	μA	Vr= 5 V

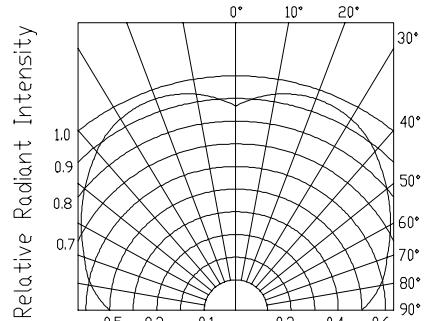
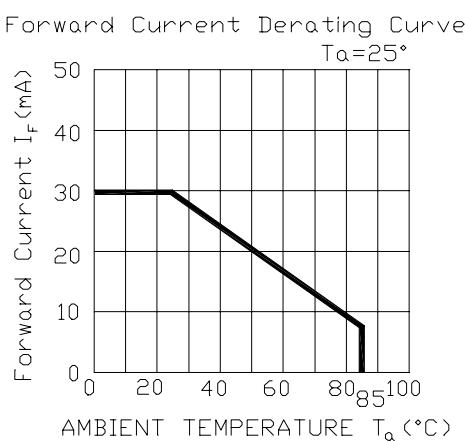
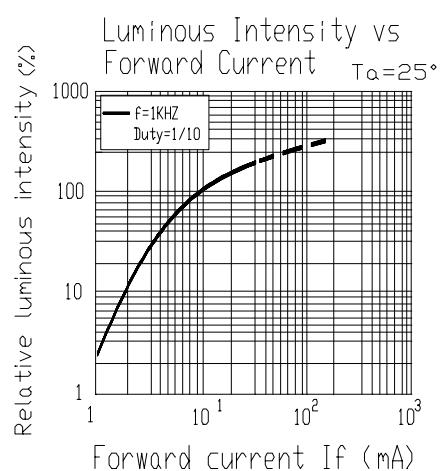
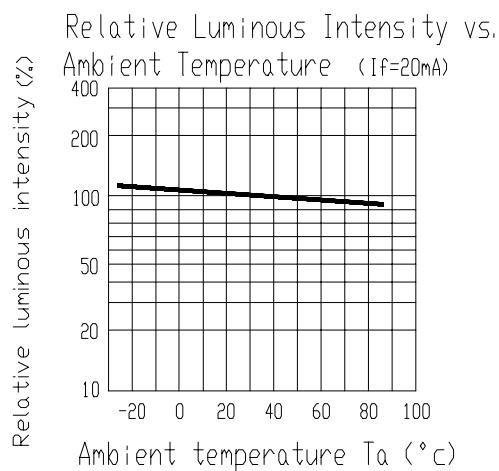
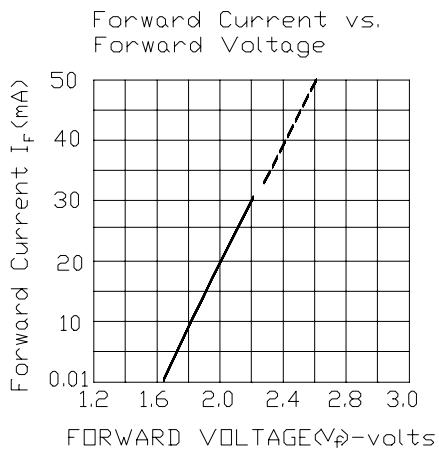
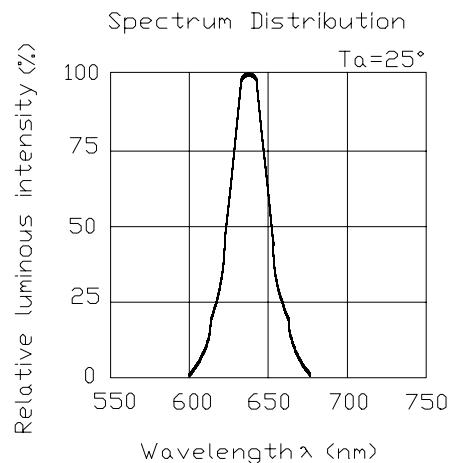


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MODEL NO : 523ID ECN : Page: 3/4

■ Typical Electro-Optical Characteristic Curves

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MODEL NO : 523ID ECN : Page: 4/4**■ 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