

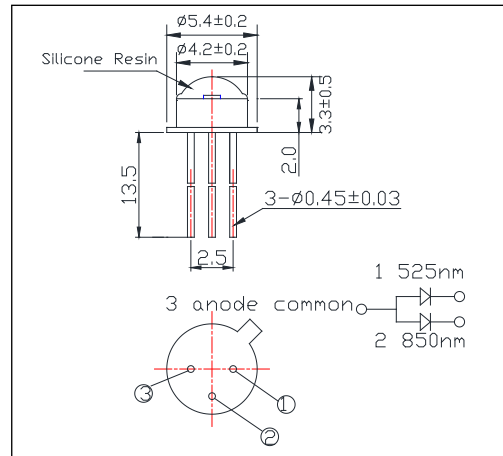
L525H/850D-10035D00

Multi Wavelength LED Lamp

<Specifications>

- Chip Material: InGaN / AlGaAs
- Chip Dimension: 1000umx1000um / 350umx350um
- Number of Chips: 2pcs
- Peak Wavelength: 525nm typ./850nm typ.
- Stem: TO-18 3pin type
- Lens: Silicone Resin

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Tc=25°C]				
Item	Symbol	Maximum Rated Value		Unit
		525nm	850nm	
Power Dissipation	PD	380	200	mW
Forward Current	IF	100	100	mA
Pulse Forward Current*	IFP	500	1000	mA
Reverse Voltage	VR	5		V
Thermal Resistance	Rthja	250		K/W
Junction Temperature	Tj	120		°C
Operating Temperature	TOPR	-40 ~ +100		°C
Storage Temperature	TSTG	-40 ~ +100		°C
Soldering Temperature**	TSOL	250		°C

* Duty 1% and Pulse Width=10us

**Soldering condition: Soldering condition must be completed within 5 seconds at 250°C and is allowed in the area apart 3mm from the bottom of the lamp.

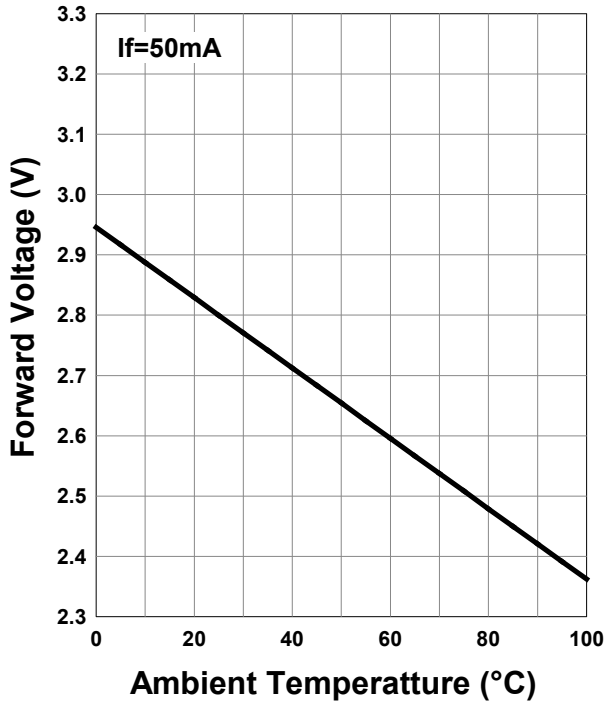
Electro-Optical Characteristics [Tc=25°C]										
Item	Symbol	Condition		Min		Typ		Max		Unit
		525nm	850nm	525	850	525	850	525	850	
Forward Voltage	VF	IF=50mA	IF=50mA			2.8	1.5	(3.8)	2.0	V
	VFP	IFP=500mA	IFP=1A			3.7	2.7			
Total Radiated Power*	PO	IF=50mA	IF=50mA			36	25			mW
		IFP=500mA	IFP=1A			220	430			
Luminous Flux	ΦV	IF=50mA	N/A			25				lm
Peak Wavelength	λP	IF=50mA	N/A	515	840			535	860	nm
Dominant Wavelength	λD	IF=50mA	IF=50mA			536				nm
Half Width	Δλ	IF=50mA	IF=50mA			30	32			nm
Rise Time	tr	IF=50mA	IF=50mA			220	10			ns
Fall Time	tf	IF=50mA	IF=50mA			200	10			ns

*Total Radiated Power is measured by S3584-08

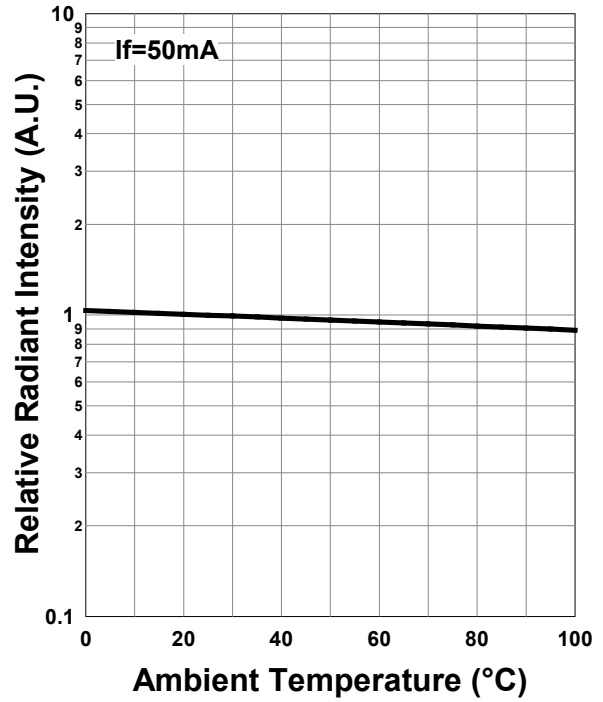


525nm

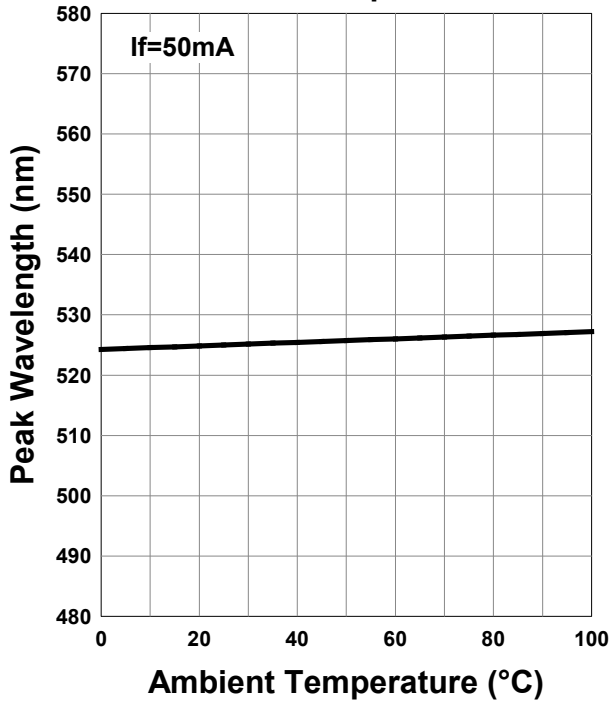
Forward Voltage - Ambient Temperature



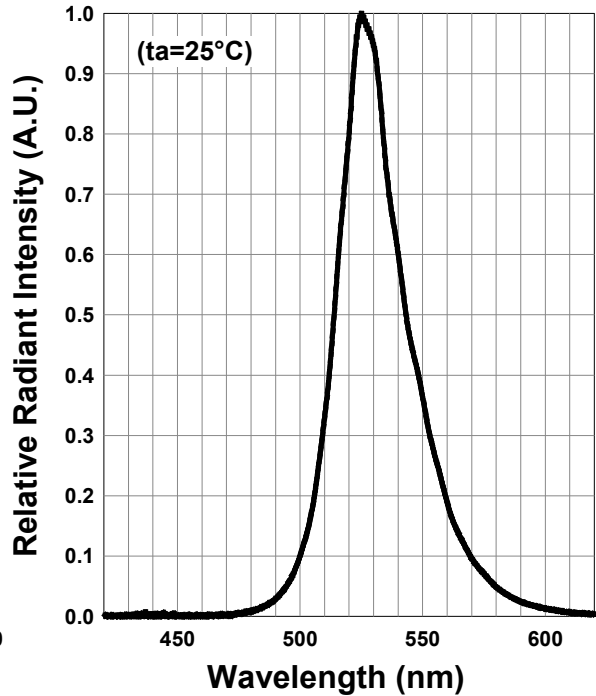
Relative Radiant Intensity - Ambient Temperature



Peak Wavelength - Ambient Temperature



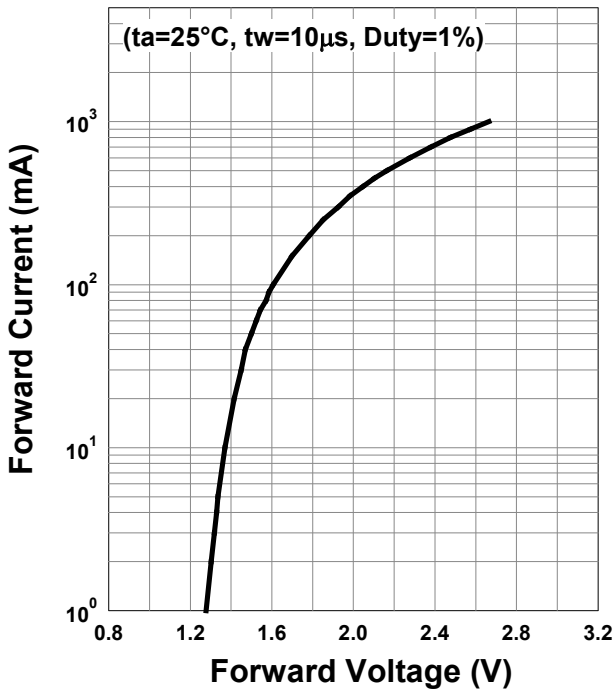
Relative Spectral Emission



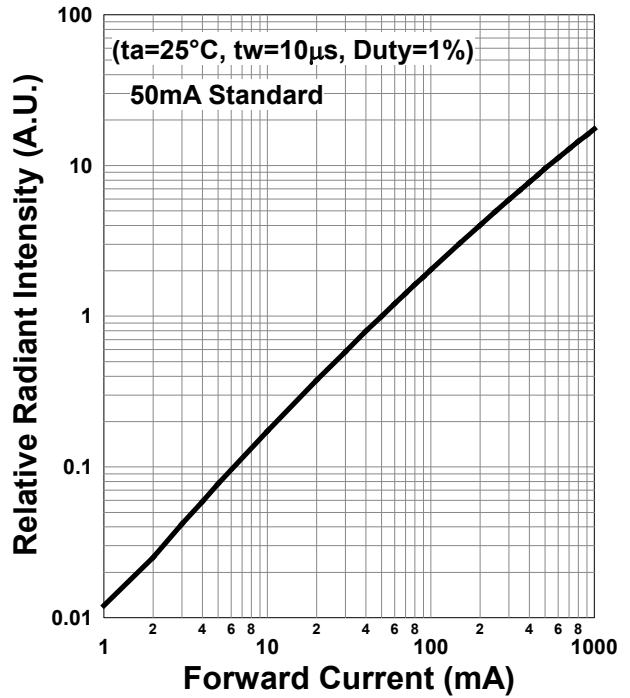
Typical Characteristic Curves

850nm

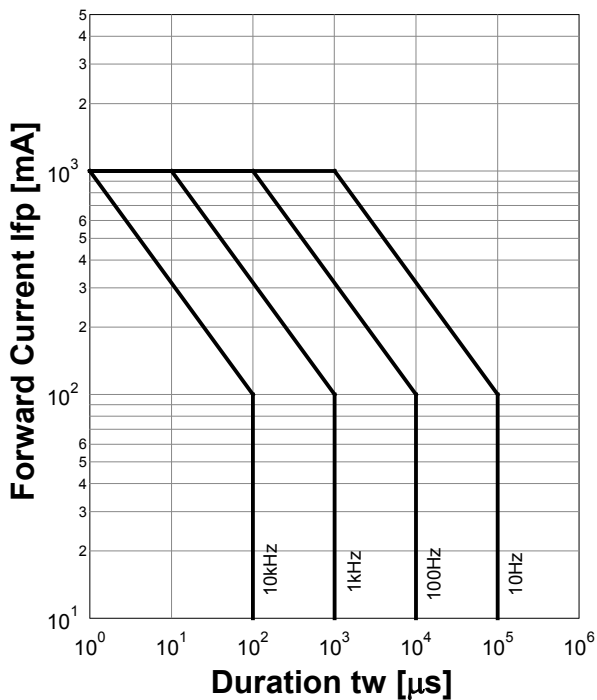
Forward Current - Forward Voltage



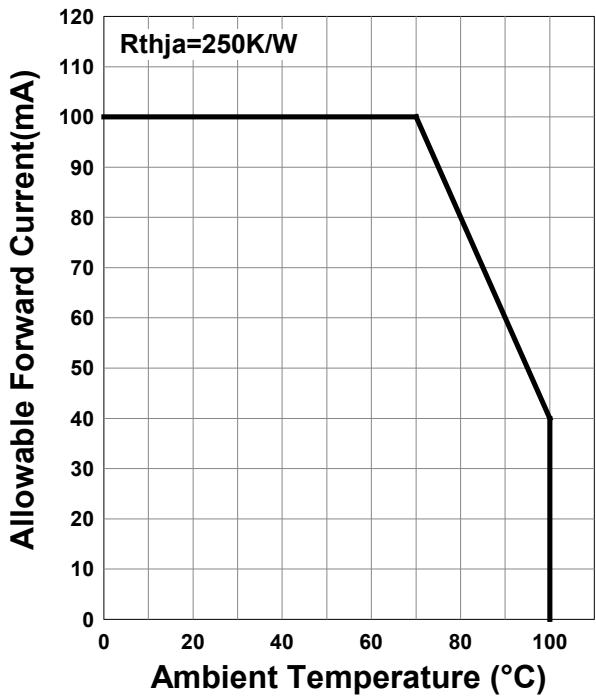
Relative Radiant Intensity - Forward Current



Forward Current - Pulse Duration

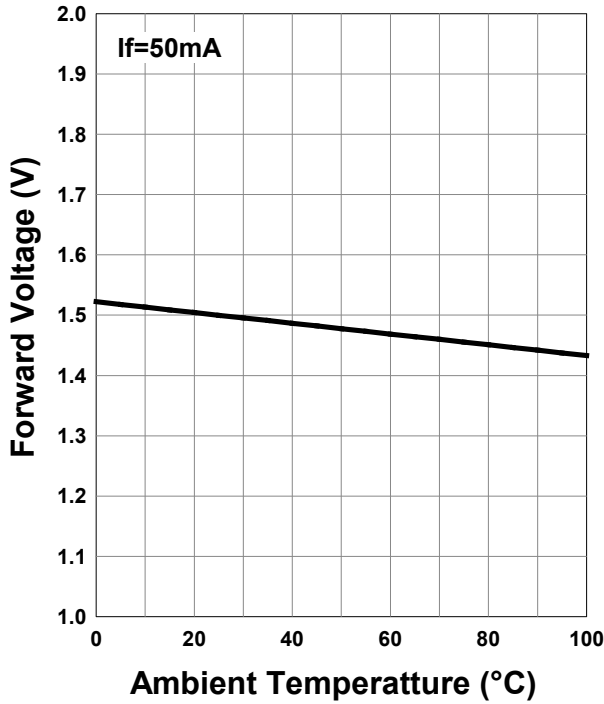


Allowable Forward Current - Ambient Temperature

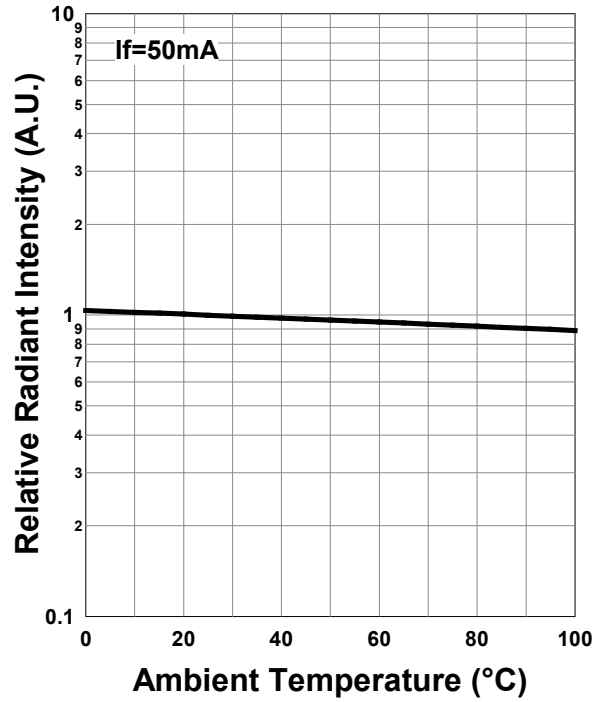


850nm

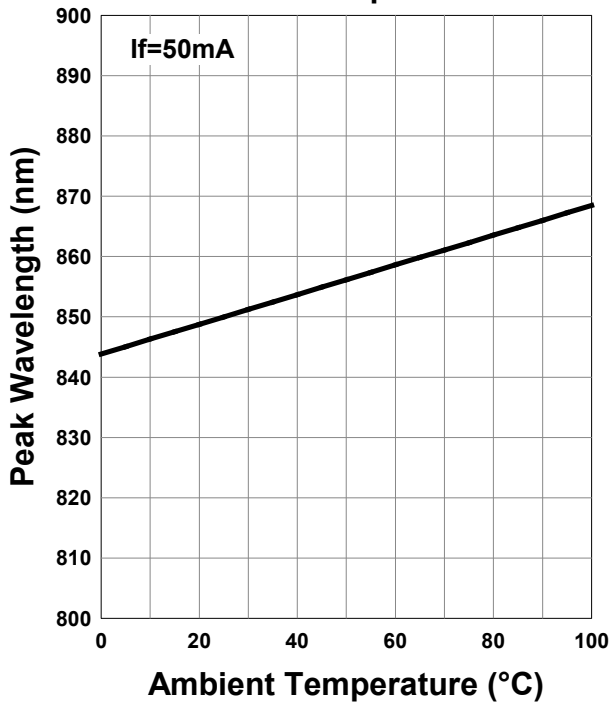
Forward Voltage - Ambient Temperature



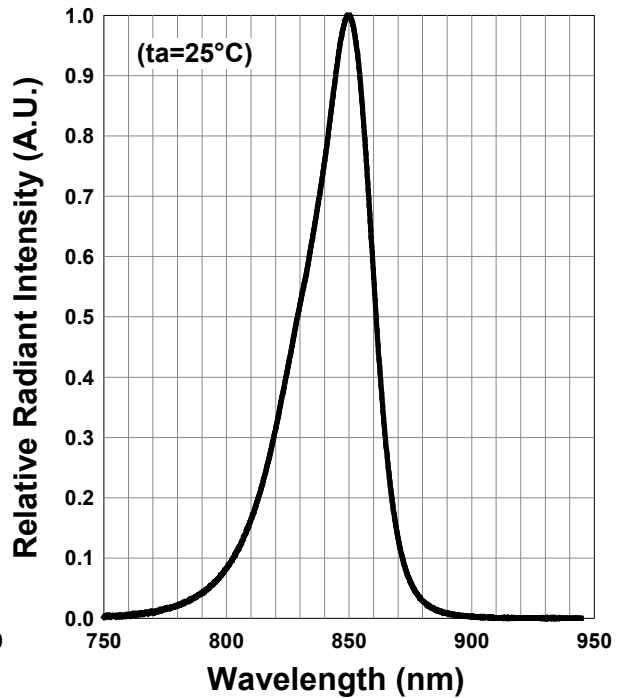
Relative Radiant Intensity - Ambient Temperature



Peak Wavelength - Ambient Temperature



Relative Spectral Emission



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Product data and parameters in this catalog are typical values based on reasonably up-to-date measurements.

Product data and parameters may vary by user application and over time.

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