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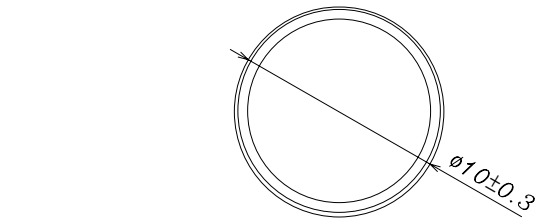
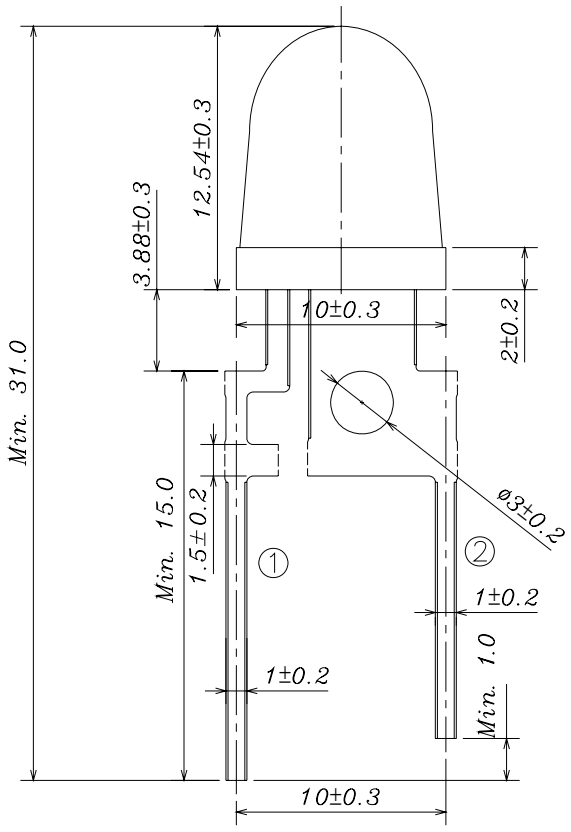
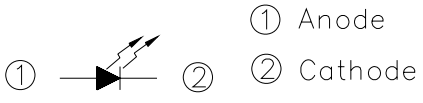
WS-AL25393C

Package Dimensions







- Other dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Protruded resin under flange is 1.5mm Max LED.
- Bare copper alloy is exposed at tie-bar portion after cutting.

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Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Rating	Units
Continuous Forward Current	I_F	350	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	-40 ~ +100	℃
Storage Temperature	T_{stg}	-40 ~ +100	℃
Thermal resistance (junction to leadframe)	$R_{th(j-L)}$	20	K/W
Soldering Temperature*1	T_{sol}	260 ±5	℃
Power Dissipation at(or below) 25℃ Free Air Temperature	P_d	0.5	W

Notes: *1:Soldering time≦5 seconds.

Electro-Optical Characteristics (Ta=25℃)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Radiant Intensity	Ee	I_F=150mA	100	200	300	mW/sr
		I_F=350mA		470	--	
Peak Wavelength	λp	I_F=20mA	--	850	--	nm
Spectral Bandwidth	Δλ	I_F=20mA	--	50	--	nm
Forward Voltage	V_F	I_F=150mA	--	1.5	2.1	V
		I_F=350mA	--	1.7	2.4	
Reverse Current	I_R	V_R=5V	--	--	10	μA
View Angle	2θ1/2	I_F=20mA	--	25	--	deg
Rise Time	Tr	I_F=20mA	--	11	--	ns
Fall Time	Tf	I_F=20mA	--	7	--	ns

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Typical Electro-Optical Characteristics Curves

Fig.1 Forward Current vs. Ambient Temperature

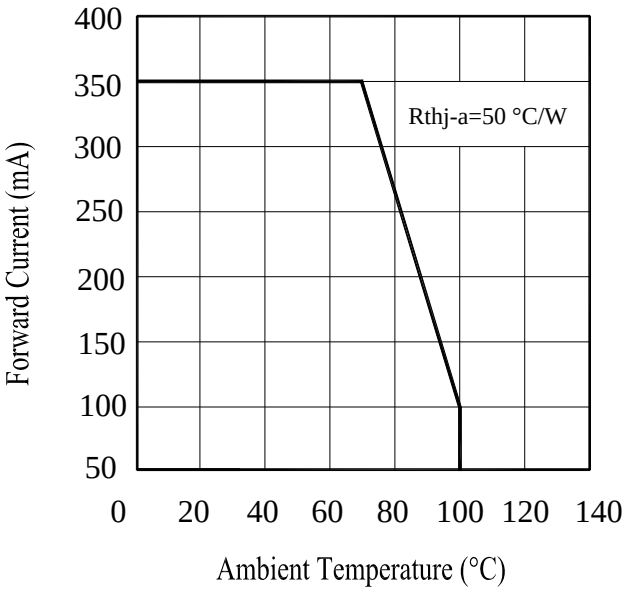


Fig.2 Spectral Distribution

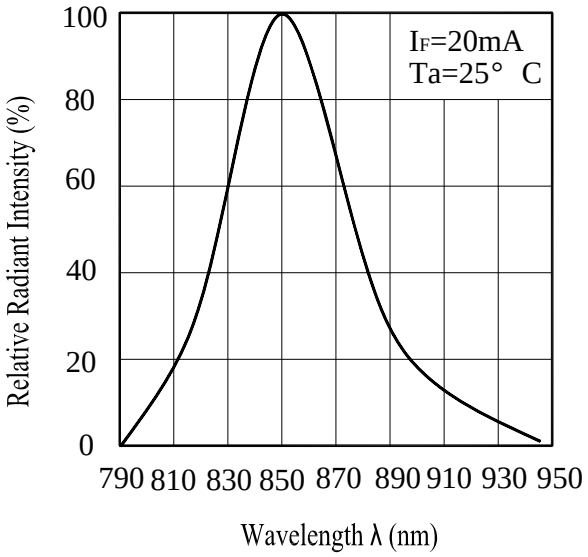


Fig.3 Peak Emission Wavelength Ambient Temperature

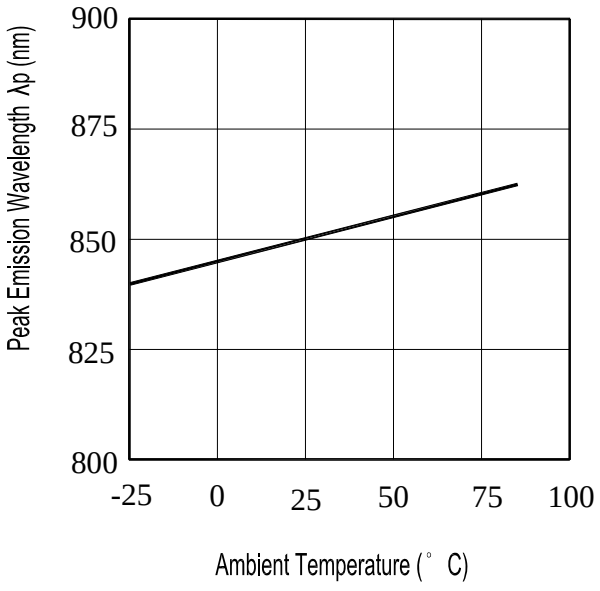
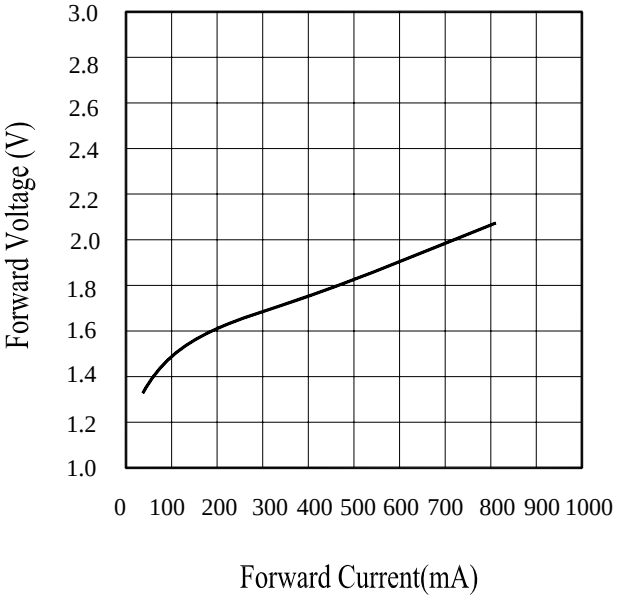


Fig.4 Forward Current vs. Forward Voltage



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Typical Electro-Optical Characteristics Curves

Fig.5 Relative Intensity vs. Forward Current

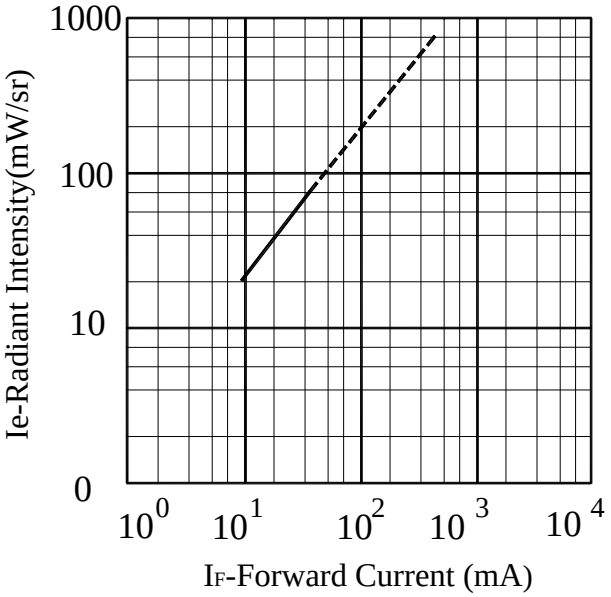
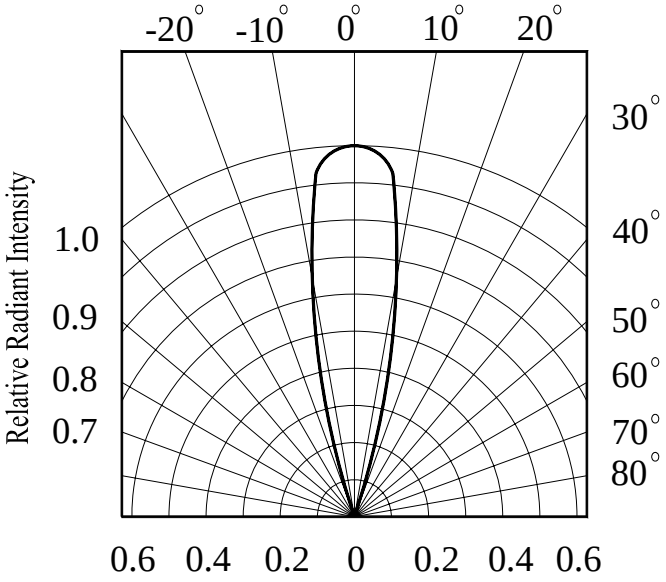


Fig.6 Relative Radiant Intensity vs. Angular Displacement



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