



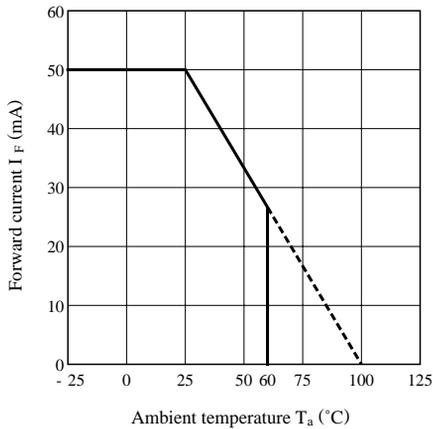
**Electro-optical Characteristics**

(Ta=25 °C)

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	$V_F$	$I_F = 50\text{mA}$	-	1.55	1.7	V
Peak forward voltage	$V_{FM}$	$I_{FM} = 300\text{mA}, t = 10\text{ms}$	-	1.7	1.95	V
Reverse current	$I_R$	$V_R = 1\text{V}$	-	-	100	$\mu\text{A}$
Radiant flux	${}^*3 \Phi_e$	$I_{FM} = 300\text{mA}, t = 10\text{ms}$	4.2	9	-	mW
Peak emission wavelength	$\lambda_p$	$I_F = 50\text{mA}$	-	850	-	nm
Half intensity wavelength	$\Delta \lambda$	$I_F = 50\text{mA}$	-	35	-	nm
Half intensity angle	$\Delta \theta$	$I_F = 50\text{mA}$	-	$\pm 32$	-	$^\circ$
Terminal capacitance	$C_t$	$V_R = 0, f = 1\text{MHz}$	-	80	-	pF

\*3 Emission output to effective angle  $\pm 25^\circ$

**Fig. 1 Forward Current vs. Ambient Temperature**



**Fig. 2 Peak Forward Current vs. Duty Ratio**

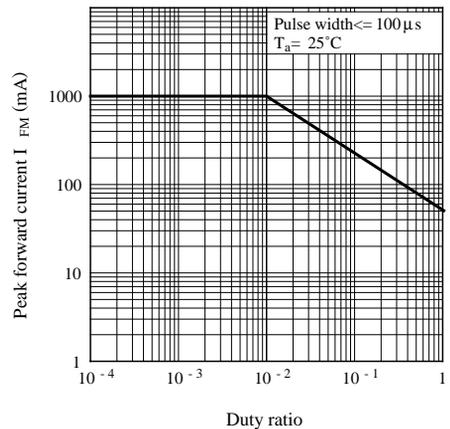


Fig. 3 Spectral Distribution

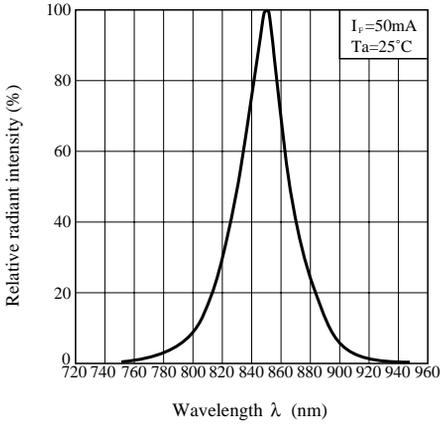


Fig. 4 Peak Emission Wavelength vs. Ambient Temperature

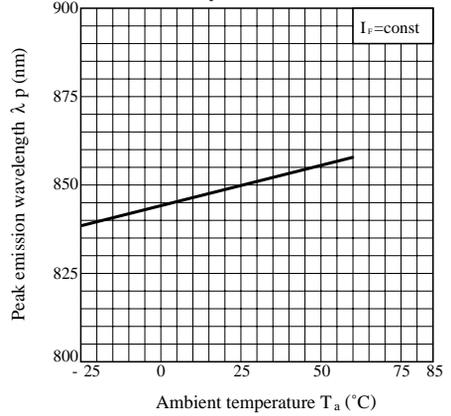


Fig. 5 Forward Current vs. Forward Voltage

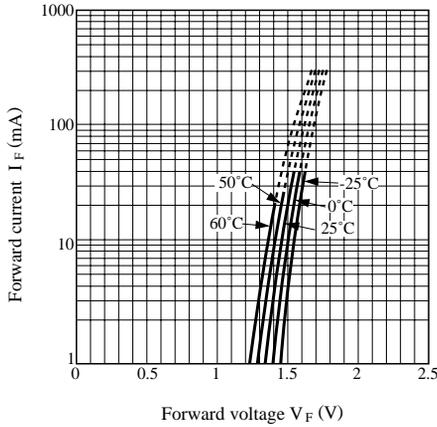


Fig. 6 Relative Radiant Flux vs. Ambient Temperature

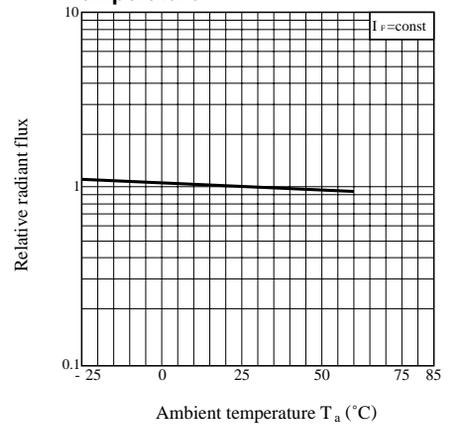


Fig. 7 Radiant Flux vs. Forward Current

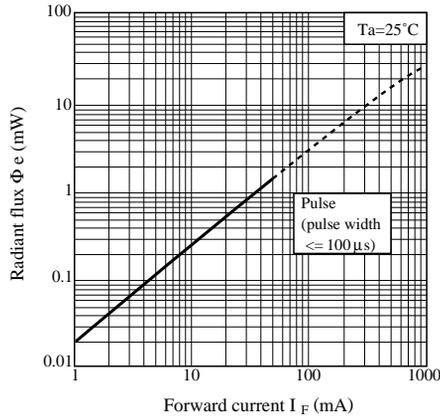


Fig. 8 Relative Radiant Intensity vs. Distance

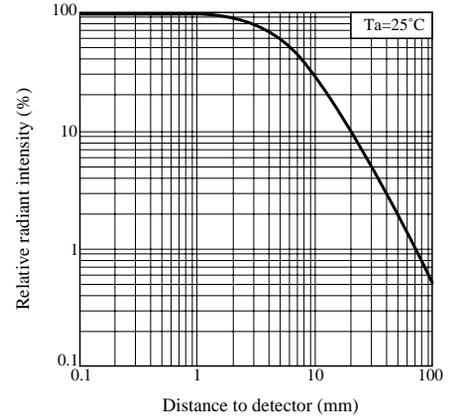
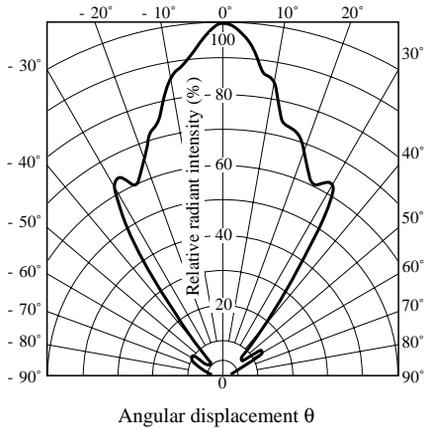


Fig. 9 Radiation Diagram

( $T_a = 25^\circ\text{C}$ )



● Please refer to the chapter "Precautions for Use". (Page 78 to 93)

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