

● Electrical and optical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Emitting strength I	$I_{E I}$	—	0.8	—	mW/sr	$I_F = 10\text{mA}$
Emitting strength II	$I_{E II}$	0.5	1.3	2.08	mA	$I_F = 10\text{mA}^*$
Forward voltage	V_F	—	1.3	1.6	V	$I_F = 50\text{mA}$
Reverse current	I_R	—	—	10	μA	$V_R = 5\text{V}$
Peak light emitting wavelength	λ_P	—	950	—	nm	$I_F = 10\text{mA}$
Spectral line half width	$\Delta \lambda$	—	40	—	nm	$I_F = 20\text{mA}$
Half-viewing angle	$\theta_{1/2}$	—	± 30	—	deg	$I_F = 50\text{mA}$
Response time	$t_r \cdot t_f$	—	1	—	μs	$I_F = 50\text{mA}$
Cut-off frequency	f_c	—	1.0	—	MHz	$I_F = 50\text{mA}$

* According to our measurement procedures.

● Electrical and optical characteristic curves

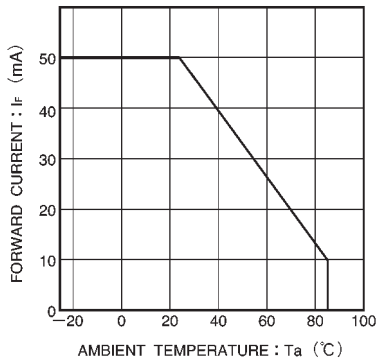


Fig.1 Forward current falloff

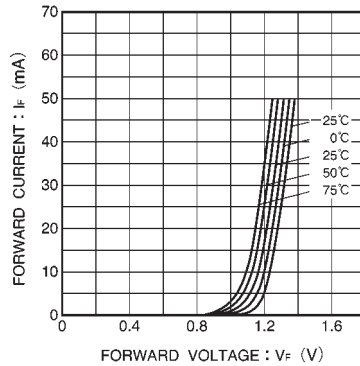


Fig.2 Forward current vs. forward voltage

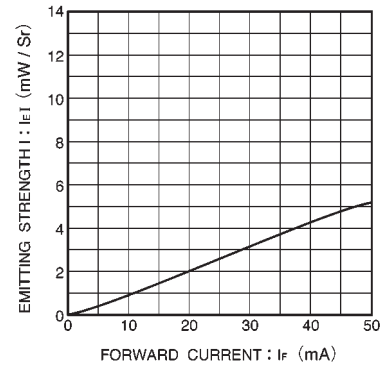


Fig.3 Emitting strength I vs. forward current

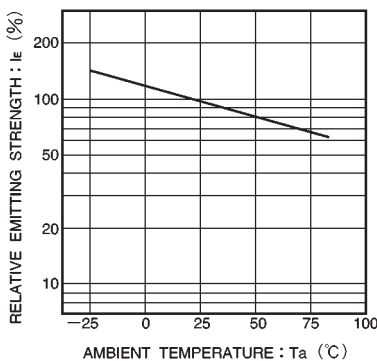


Fig.4 Relative emitting strength vs. ambient temperature

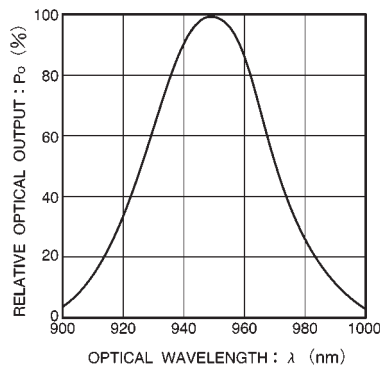


Fig.5 Wavelength

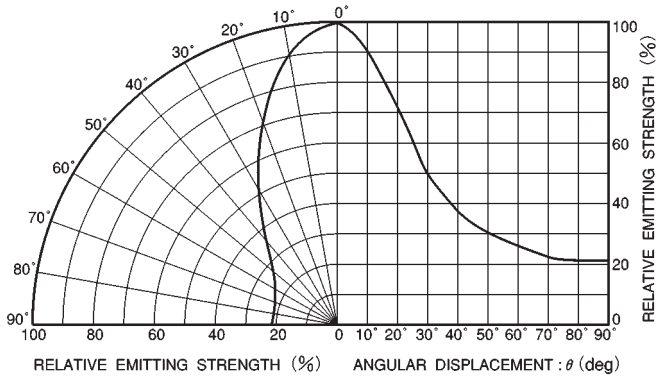


Fig. 6 Directional pattern