

**●Electrical and optical characteristics ( $T_a = 25^\circ\text{C}$ )**

Parameter	Symbol	Conditions	Values			Unit
			Min.	Typ.	Max.	
Optical output	$P_O$	$I_F = 50\text{mA}$	-	11	-	mW
Emitting strength	$I_E$	$I_F = 50\text{mA}$	8.2	21	-	mW/sr
Forward voltage	$V_F$	$I_F = 50\text{mA}$	-	1.34	1.6	V
Reverse current	$I_R$	$V_R = 3\text{V}$	-	-	10	$\mu\text{A}$
Peak light emitting wavelength	$\lambda_p$	$I_F = 50\text{mA}$	-	940	-	nm
Spectral line half width	$\Delta\lambda$	$I_F = 50\text{mA}$	-	40	-	nm
Half-viewing angle	$\theta_{1/2}$	$I_F = 50\text{mA}$	-	$\pm 15$	-	deg
Response time	tr·tf	$I_F = 50\text{mA}$	-	1.0	-	$\mu\text{s}$
Cut-off frequency	$f_C$	$I_F = 50\text{mA}$	-	1.0	-	MHz

**●Classified table of rank**

Item	Emitting Strength : $I_E$			Unit
M	8.2	to	17.6	mW / sr
N	12.3	to	25.8	mW / sr
P	18.0	to	38.8	mW / sr
Q	27.1	to	55.3	mW / sr

◎ Condition  $I_F = 50\text{mA}$

●Electrical and optical characteristics curves

Fig.1 Forward Current Falloff

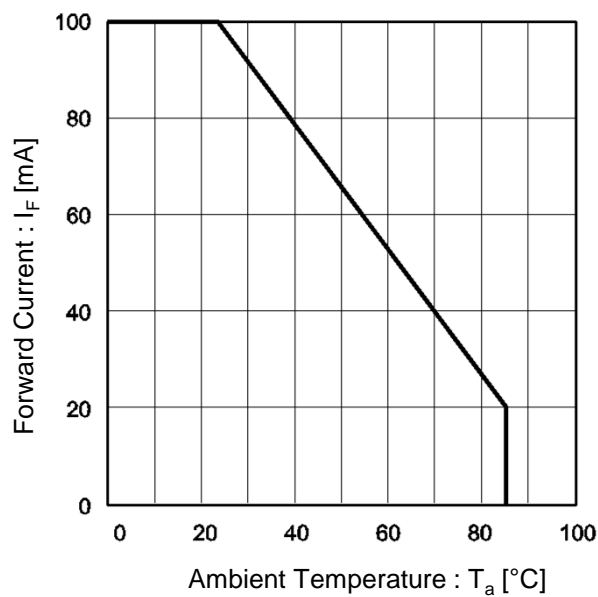


Fig.2 Forward Current vs. Forward Voltage

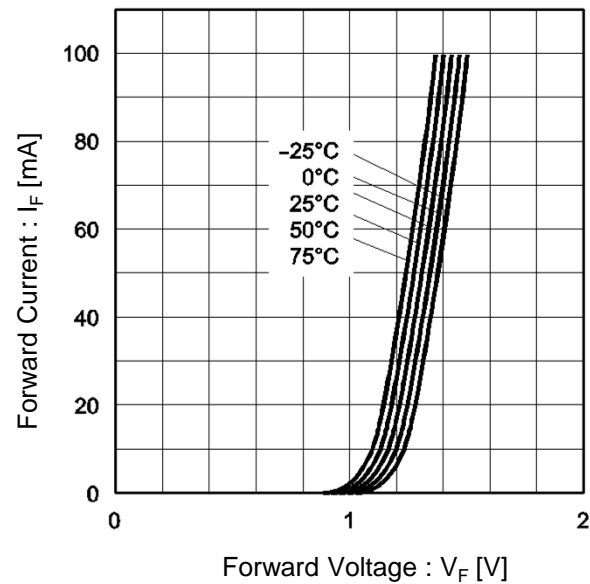


Fig.3 Wavelength

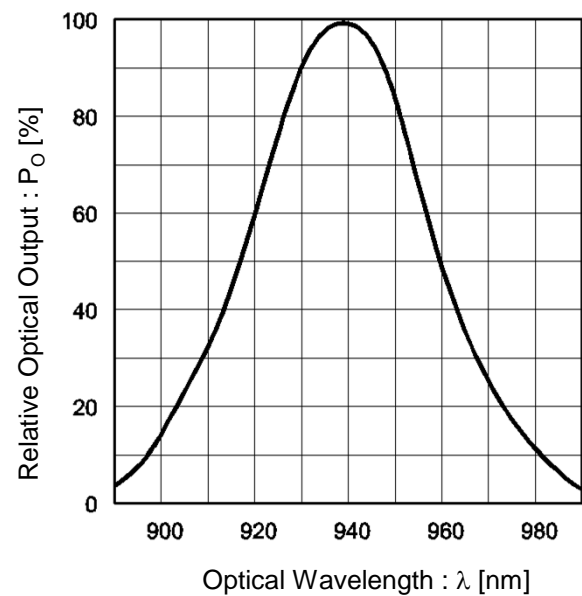
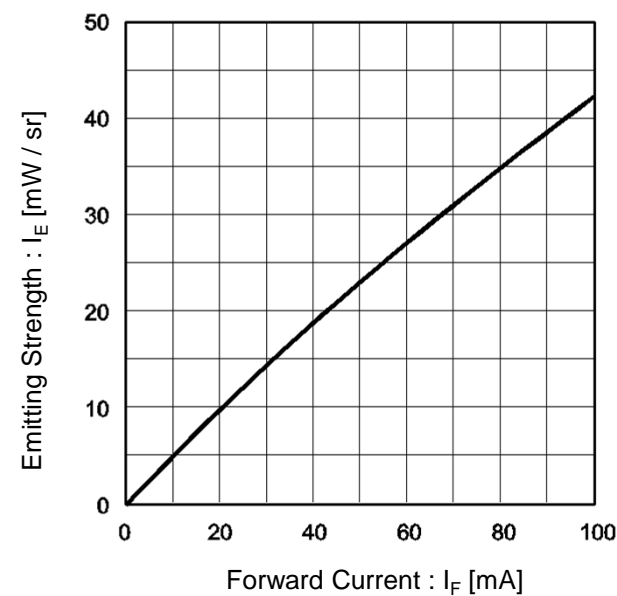


Fig.4 Emitting Strength vs. Forward Current



●Electrical and optical characteristics curves

Fig.5 Relative Emitter Strength vs. Ambient Temperature

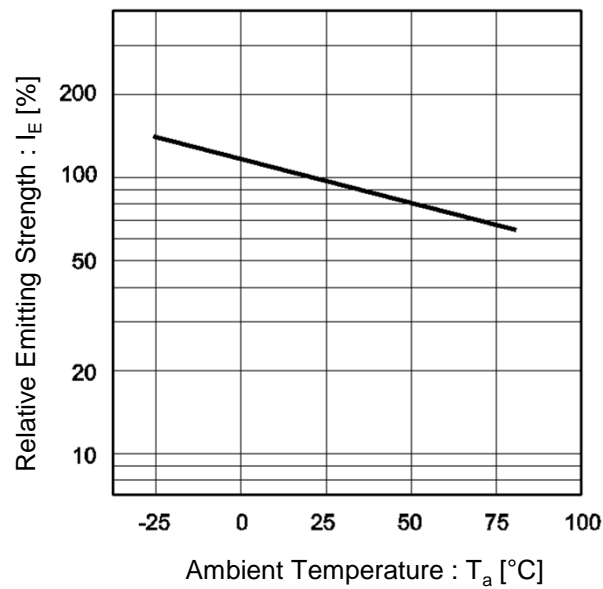
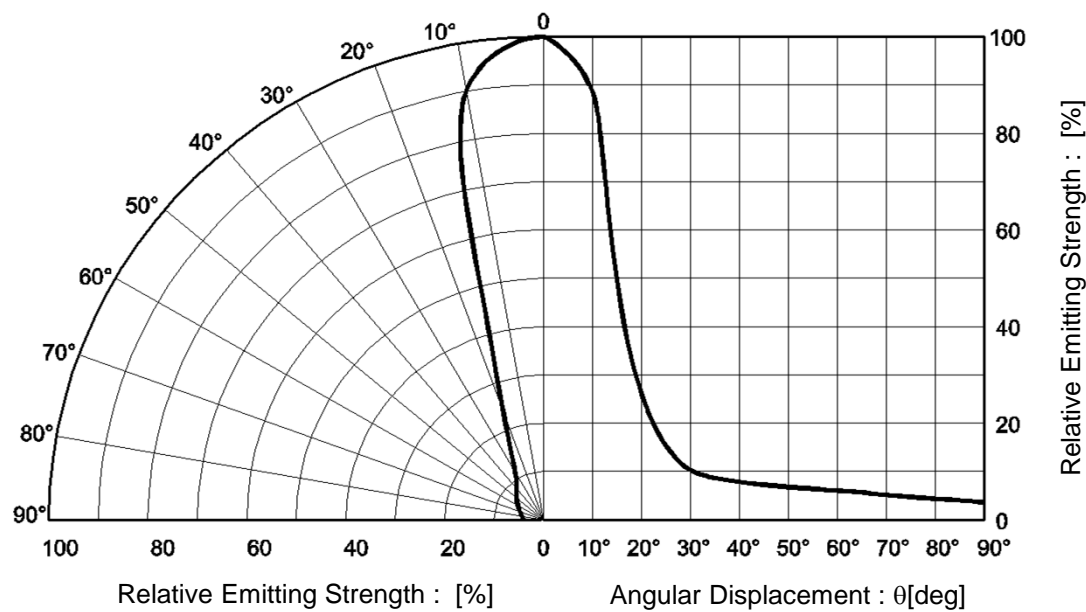


Fig.6 Directional Pattern



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## sir-563st3f - Web Page

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Part Number	sir-563st3f
Package	DIP
Unit Quantity	1000
Minimum Package Quantity	1000
Packing Type	Bulk
Constitution Materials List	inquiry
RoHS	Yes