

Optical-Electrical Characteristics

'@ $T_A=25^{\circ}\text{C}$

Parameter	Test Conditions	Symbol	Min.	Typ .	Max.	Unit
Radiant Intensity	$I_F=20\text{mA}$	I_e		1.6	-	mW/sr
Forward Voltage	$I_F=50\text{mA}$	V_F		1.4	1.7	V
	$I_F=200\text{mA}$			1.85	2.10	
Reverse Current	$V_R=5\text{V}$	I_R			100	μA
Peak Wavelength	$I_F=20\text{mA}$	λ		880		nm
Spectral Bandwidth	$I_F=20\text{mA}$	$\Delta\lambda$		60		nm
View Angle	$I_F=20\text{mA}$	$2\theta_{1/2}$	-	30	-	deg.

Typical Optical-Electrical Characteristic Curves

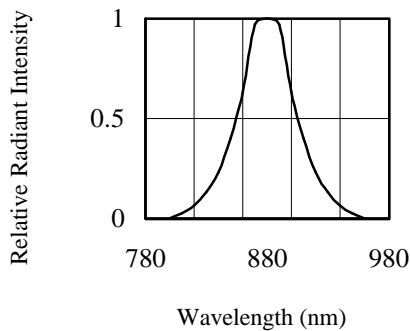


FIG.1 SPECTRAL DISTRIBUTION

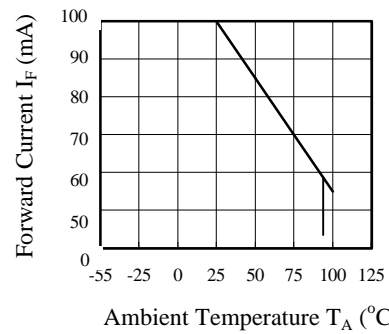


FIG.2 FORWARD CURRENT I_F (mA) VS. AMBIENT TEMPERATURE T_A ($^{\circ}\text{C}$)

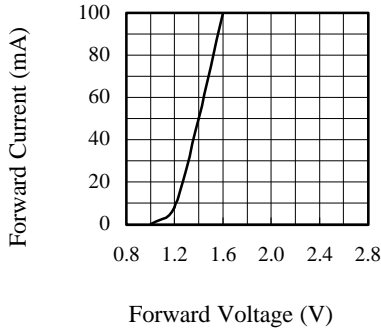


FIG.3 FORWARD CURRENT VS. FORWARD VOLTAGE

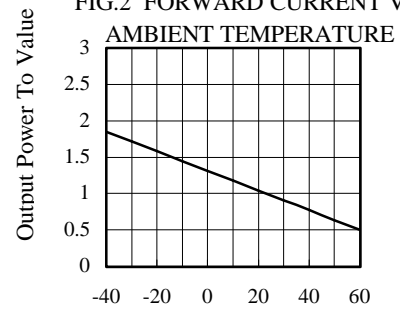


FIG.4 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE T_A ($^{\circ}\text{C}$)

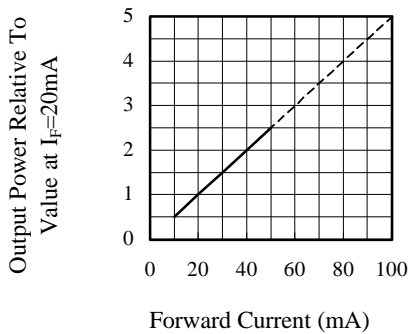


FIG.5 RELATIVE RADIANT INTENSITY VS. FORWARD CURRENT

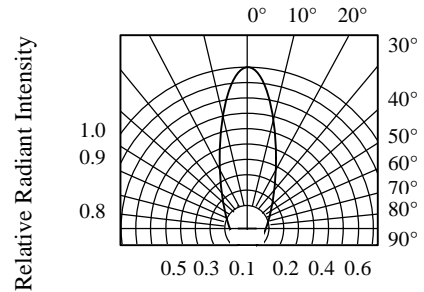


FIG.5 RADIATION DIAGRAM