



ABSOLUTE MAXIMUM RATINGS

(Ta=25

°C)

PARAMETER	SYMBOL	MAX. RATING	Unit
Power Dissipation	P _D	80	mW
Peak Forward Current (1/10 Duty Cycle @1KHz)	I _{FP}	50	mA
Continuous Forward Current	I _F	30	mA
Reverse Voltage	V _R	5.0	V
Operating Temperature Range	T _{OPR}	-40~+85	°C
Storage Temperature Range	T _{STG}	-40~+85	°C

Solder temperature 1.6 mm from body for 3 seconds at 260°C

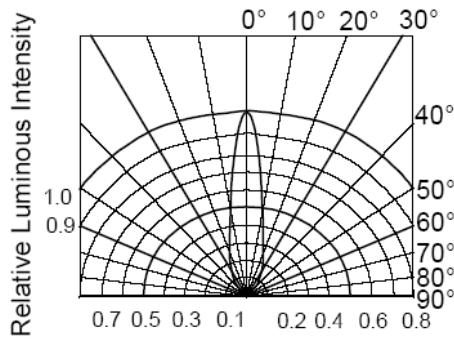
OPTICAL-ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Luminous Intensity	I _V	I _F = 20mA	860	1300		mcd
Forward Voltage	V _F	I _F = 20mA		1.9	2.4	V
Reverse Current	I _R	V _R = 5V			10	uA
Viewing Angle	2θ _{1/2}	I _F = 20mA		20		deg.
Peak Wavelength	λ _P	I _F = 20mA		660		nm
Dominant Wavelength	λ _D	I _F = 20mA		645		nm
Spectrum Radiation Bandwidth	Δλ	I _F = 20mA		25		nm

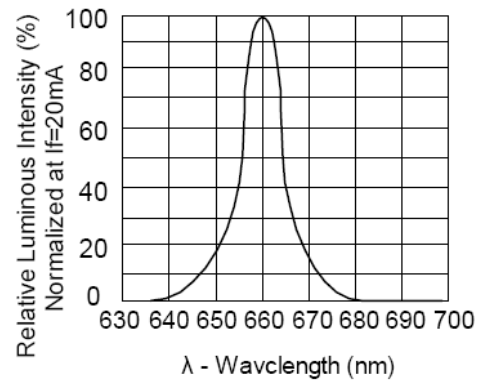
*Tolerance of Viewing Angle: -10 / +5 deg.



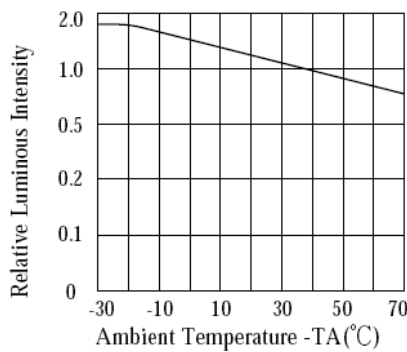
TYPICAL OPTICAL-ELECTRICAL CHARACTERISTIC CURVES



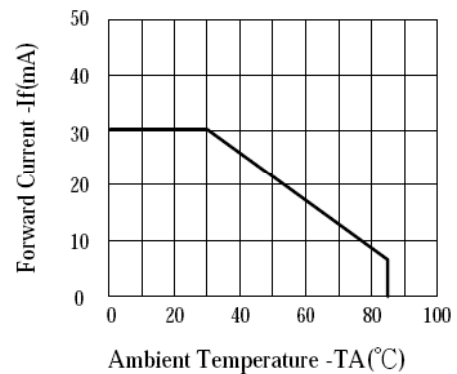
RADIATION DIAGRAM



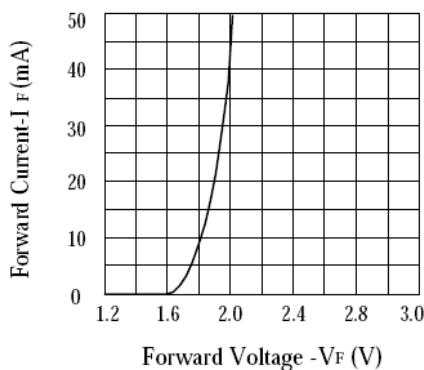
RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH



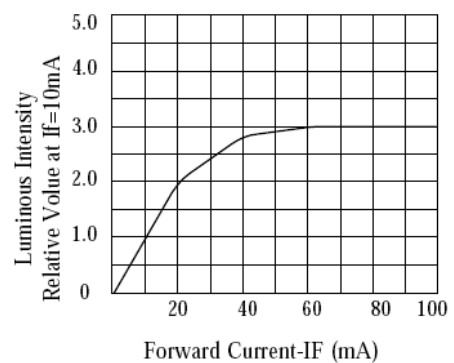
LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT