

Optical-Electrical Characteristics

Blue

@ T_A=25°C

Parameter	Test Conditions	Symbol	Min .	Typ .	Max .	Unit .
Luminous Intensity	I _F =20mA	I _V	-	80	-	mcd
Forward Voltage	I _F =20mA	V _F	-	3.5	4.2	V
Reverse Current	V _R =5V	I _R	-	-	100	μA
Peak/Dominant Wavelength	I _F =20mA	λ _d	-	470	-	nm
Spectral Linewidth	I _F =20mA	Δλ	-	26	-	nm
Viewing Angle	I _F =20mA	2θ _{1/2}	-	120	-	deg.

Green

@ T_A=25°C

Parameter	Test Conditions	Symbol	Min .	Typ .	Max .	Unit .
Luminous Intensity	I _F =20mA	I _V	-	280	-	mcd
Forward Voltage	I _F =20mA	V _F	-	3.5	4.2	V
Reverse Current	V _R =5V	I _R	-	-	100	μA
Peak/Dominant Wavelength	I _F =20mA	λ _d	-	525	-	nm
Spectral Linewidth	I _F =20mA	Δλ	-	35	-	nm
Viewing Angle	I _F =20mA	2θ _{1/2}	-	120	-	deg.

Red

@ T_A=25°C

Parameter	Test Conditions	Symbol	Min .	Typ .	Max .	Unit .
Luminous Intensity	I _F =20mA	I _V	-	130	-	mcd
Forward Voltage	I _F =20mA	V _F	-	2.1	2.6	V
Reverse Current	V _R =5V	I _R	-	-	10	μA
Peak/Dominant Wavelength	I _F =20mA	λ _d	-	625	-	nm
Spectral Linewidth	I _F =20mA	Δλ	-	20	-	nm
Viewing Angle	I _F =20mA	2θ _{1/2}	-	120	-	deg.

Typical Optical-Electrical Characteristic Curves

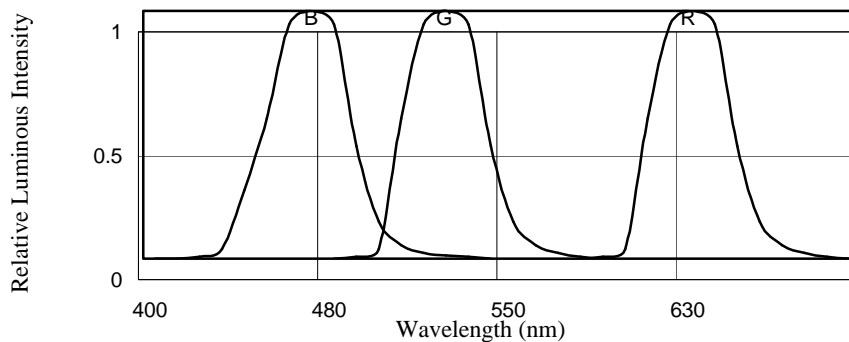


FIG.1 RELATIVE INTENSITY LUMINOUS VS. WAVELENGTH

Typical Optical-Electrical Characteristic Curves

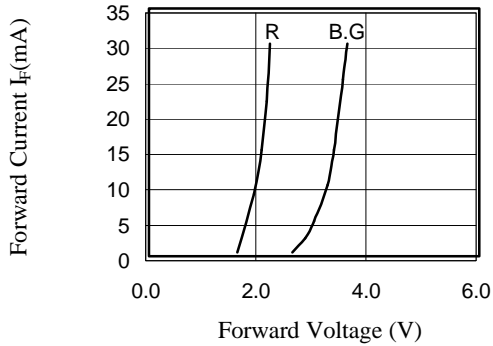


FIG.2 FORWARD CURRENT VS. FORWARD VOLTAGE

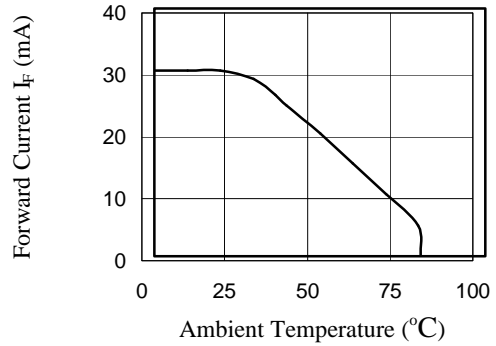


FIG.3 FORWARD CURRENT VS. AMBIENT TEMPERATURE

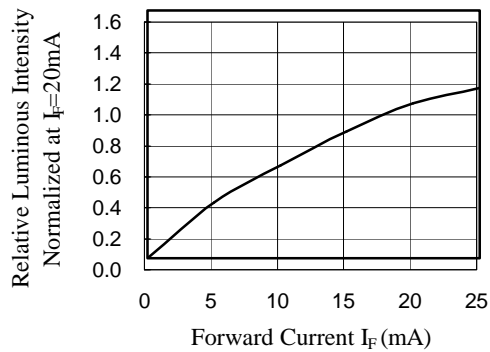


FIG.4 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

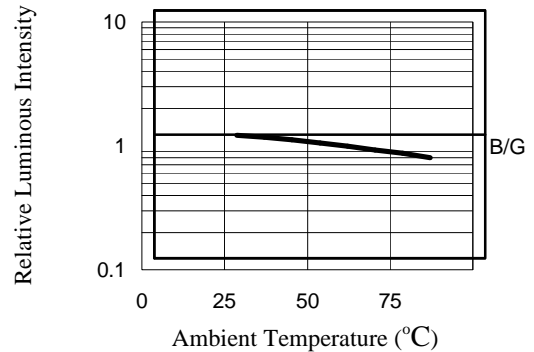


FIG.5-2 RELATIVE LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

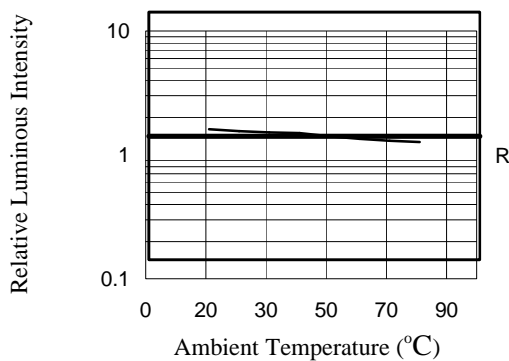


FIG.5-3 RELATIVE LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

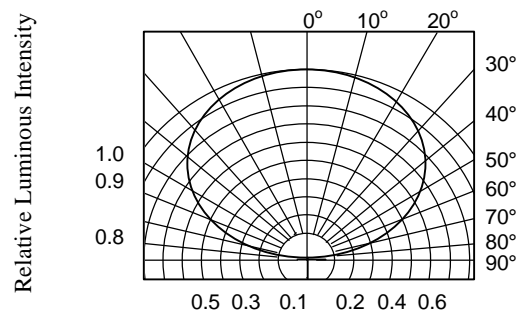


FIG.6 RADIATION DIAGRAM