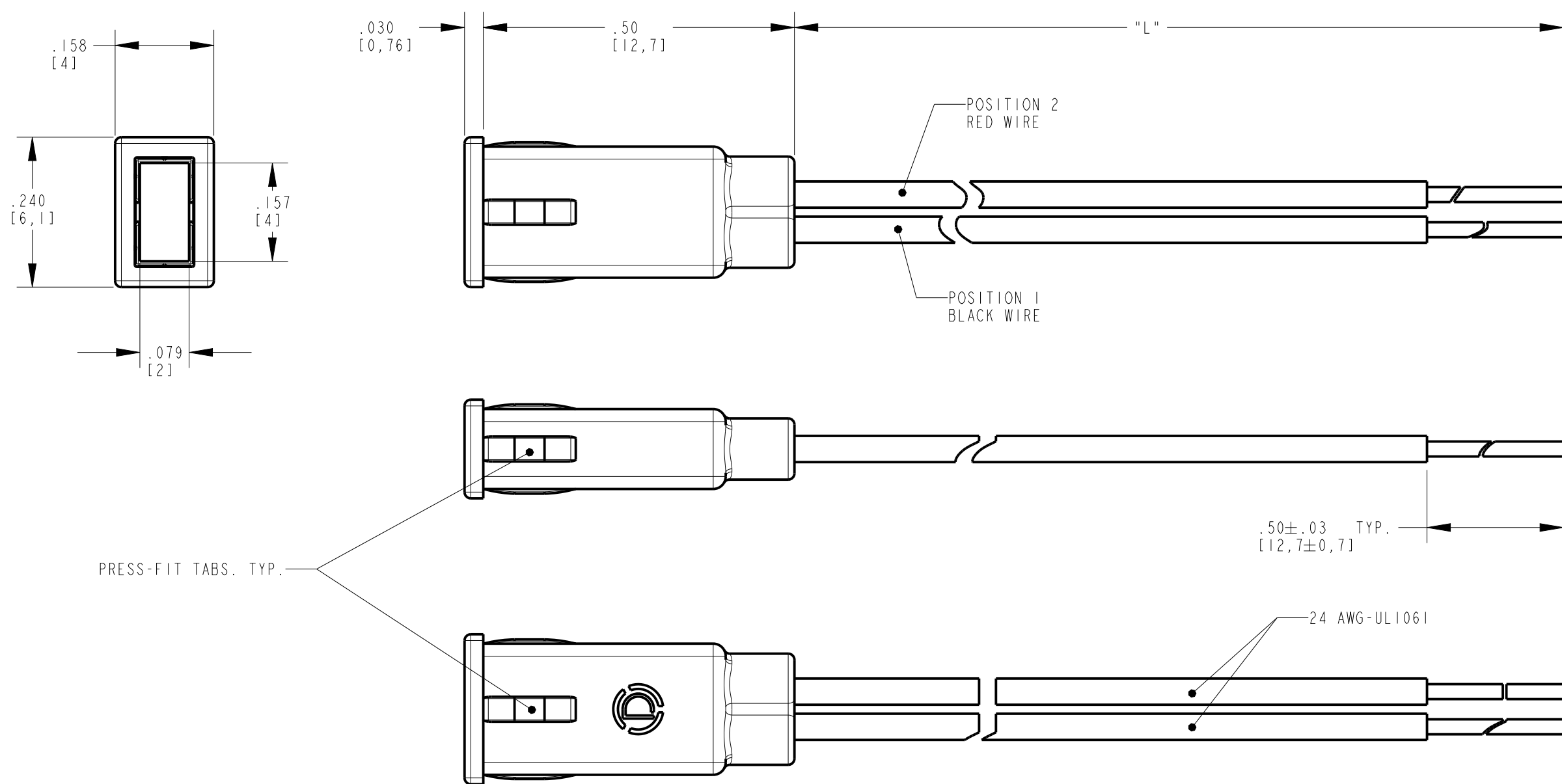


PART No:	COLOR	DIE	Vf(V)		TYP. If(mA)	LED EPOXY COLOR	DOM. WAVELENGTH(nm)			INTENSITY(mc d)		REVERSE CURRENT(μA)	VIEWING ANGLE	ABSOLUTE MAXIMUM RATINGS AT Ta=25°C				
			TYP.	MAX.			MIN.	TYP.	MAX.	MIN.	TYP.			MAX.	POWER DISSIPATION (mW)	PEAK FORWARD CURRENT(mA)	DC FORWARD CURRENT(mA)	OPERATING TEMP.
559-8100-007F	RED	HI-EFF. RED	2.0	2.6	20	RED DIFFUSED		570		1.1	3.7	100	104	100	120	30	-55°C TO +100°C	-55°C TO +100°C
559-8200-007F	GREEN	GaP	2.1	2.6	20	GREEN DIFFUSED		566		3.75	5.6	100	104	100	90	30	-55°C TO +100°C	-55°C TO +100°C
559-8300-007F	YELLOW	YELLOW	2.1	2.6	20	YELLOW DIFFUSED		588		0.7	2.5	100	104	60	90	30	-55°C TO +100°C	-55°C TO +100°C
559-8120-007F	RED ORANGE	RED ORANGE	2.1	2.6	20	WHITE DIFFUSED		621		1.7	5.6	100	140	100	120	30	-55°C TO +100°C	-55°C TO +100°C
	GREEN	GREEN	2.1	2.6				569		1.7	5.6			100	120	30		
559-8320-007F	YELLOW GREEN	YELLOW GREEN	2.1	2.6	20	WHITE DIFFUSED	565	570	575	9	15	100	120	52	60	20	-40°C TO 85°C	-40°C TO 100°C
	YELLOW	YELLOW	2.1	2.6			584	591	594	4	11			52	60	20		
559-8400-007F	BLUE	InGaN	3.2		10	BLUE		468		30	67	100	100	80	60	20	-30°C TO 85°C	-40°C TO 100°C

REV	REVISIONS	DRN	APP	DATE
A	NEW RELEASE	JGL	SK	10/19/2020
B	UPDATED CHARTS	JGL	SK	01/11/2021
C	ADDED P/N: 559-8400-007F	JGL	SK	6/17/2022

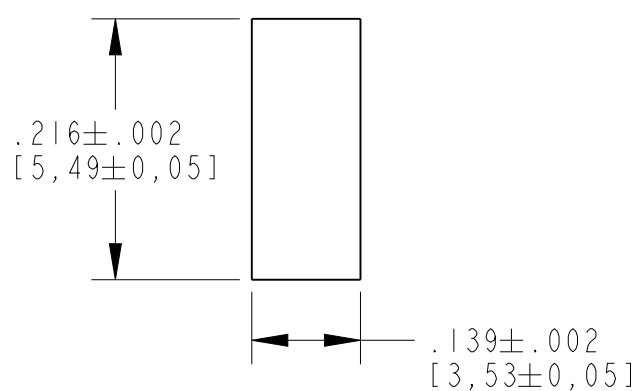


PART NUMBER	COLOR	POSITION 1 (BLACK WIRE)	POSITION 2 (RED WIRE)	"L"
559-8100-007F	RED	CATHODE		14.1"±0.12[358±3]
559-8200-007F	GREEN	CATHODE		14.1"±0.12[358±3]
559-8300-007F	YELLOW	CATHODE		14.1"±0.12[358±3]
559-8120-007F	RED ORANGE	CATHODE		14.1"±0.12[358±3]
	GREEN		CATHODE	
559-8320-007F	YELLOW	CATHODE		14.1"±0.12[358±3]
	YELLOW GREEN		CATHODE	
559-8400-007F	BLUE	CATHODE		14.1"±0.12[358±3]

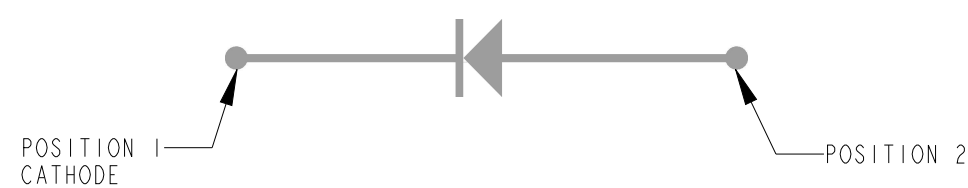
NOTES:

- REQUIRES EXTERNAL RESISTOR. MAXIMUM FORWARD D.C. CURRENT 7mA.
- LED LEAD DIMENSIONS SHOWN ARE MEASURED AT HOUSING EXIT.
- PIN(POSITION) NUMBERS FOR REFERENCE ONLY. DESIGNATION NON-EXISTENT ON PART.
- DIALIGHT PART NUMBERS: 559-8XX0-007F.
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.

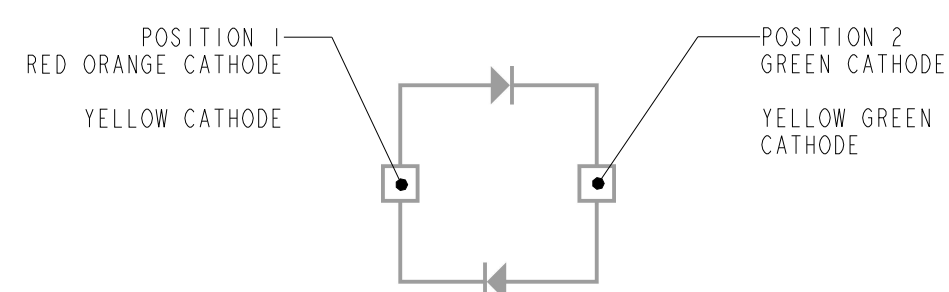
RECOMMENDED MOUNTING HOLE



SINGLE COLOR LED DIODE DIAGRAM



BI-COLOR LED DIODE DIAGRAM



**ATTENTION:**  
OBSERVE PRECAUTIONS FOR  
HANDLING ELECTROSTATIC  
SENSITIVE DEVICES

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DIALIGHT CORP. INTERNAL REFERENCE ONLY - 3D MODEL: 559810007F-A-2		
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DECIMALS (.XXXX): ±.0005		
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FSCM 83330	SHEET 1 OF 2	FAMILY TABLE:

# TYPICAL ELECTRICAL/OPTICAL CHARACTERISTICS CURVS (AT 25°C AMBIENT TEMPERATURE)

PART NUMBER: 559-8100-007F

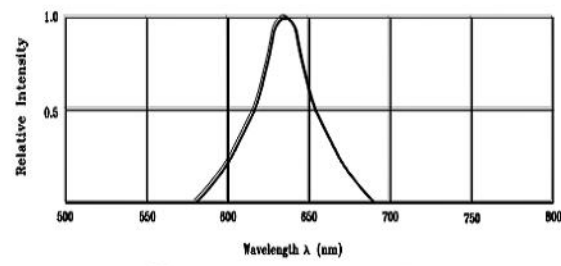


Fig.1 Relative Intensity vs. Wavelength

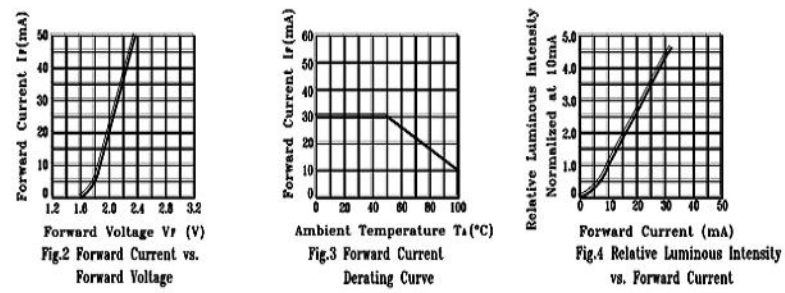


Fig.2 Forward Current vs. Forward Voltage  
Fig.3 Forward Current Derating Curve  
Fig.4 Relative Luminous Intensity vs. Forward Current

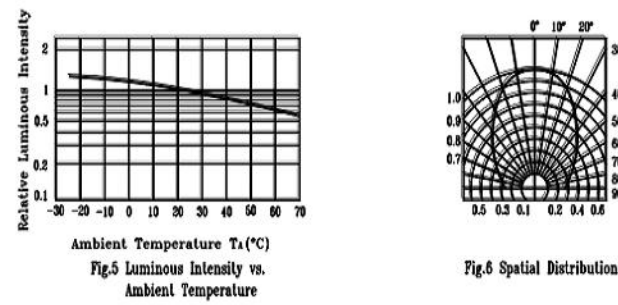


Fig.5 Luminous Intensity vs. Ambient Temperature  
Fig.6 Spatial Distribution

PART NUMBER: 559-8200-007F

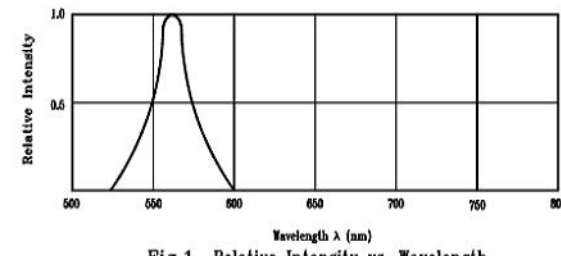


Fig.1 Relative Intensity vs. Wavelength

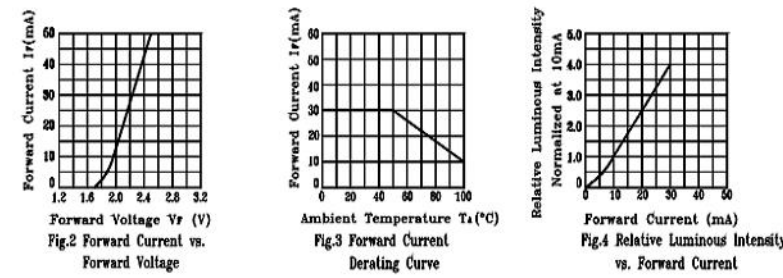


Fig.2 Forward Current vs. Forward Voltage  
Fig.3 Forward Current Derating Curve  
Fig.4 Relative Luminous Intensity vs. Forward Current

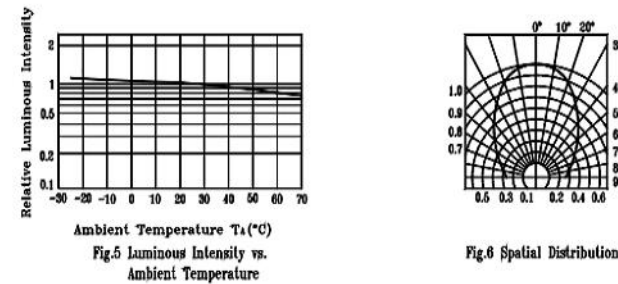


Fig.5 Luminous Intensity vs. Ambient Temperature  
Fig.6 Spatial Distribution

PART NUMBER: 559-8300-007F

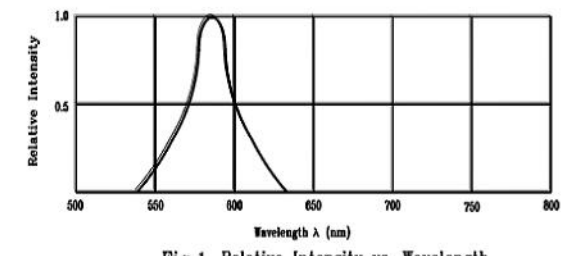


Fig.1 Relative Intensity vs. Wavelength

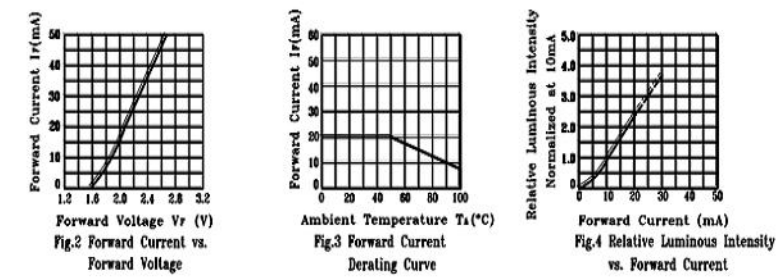


Fig.2 Forward Current vs. Forward Voltage  
Fig.3 Forward Current Derating Curve  
Fig.4 Relative Luminous Intensity vs. Forward Current

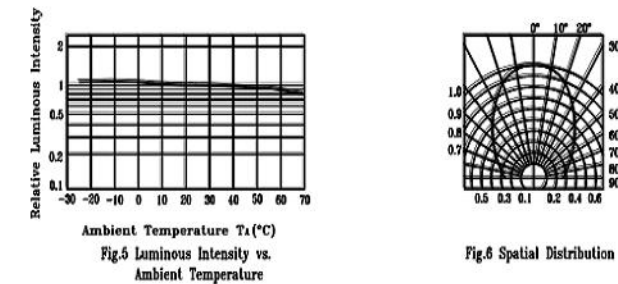


Fig.5 Luminous Intensity vs. Ambient Temperature  
Fig.6 Spatial Distribution

PART NUMBER: 559-8120-007F

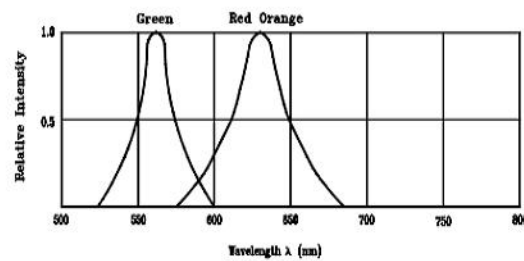


Fig.1 Relative Intensity vs. Wavelength

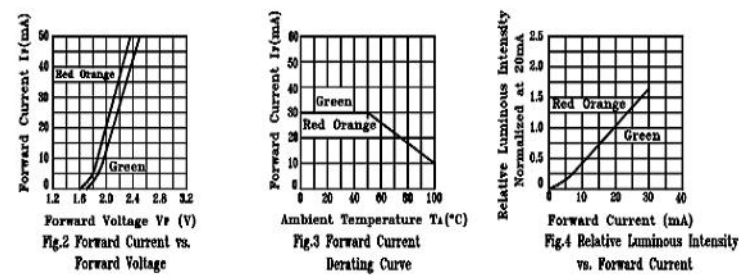


Fig.2 Forward Current vs. Forward Voltage  
Fig.3 Forward Current Derating Curve  
Fig.4 Relative Luminous Intensity vs. Forward Current

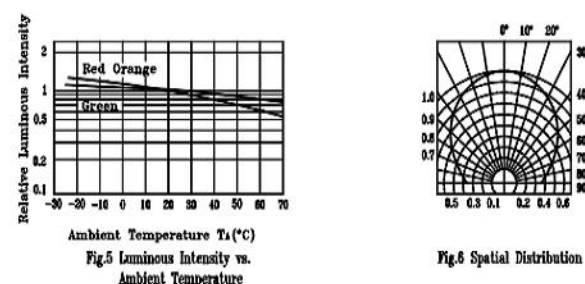


Fig.5 Luminous Intensity vs. Ambient Temperature  
Fig.6 Spatial Distribution

PART NUMBER: 559-8320-007F

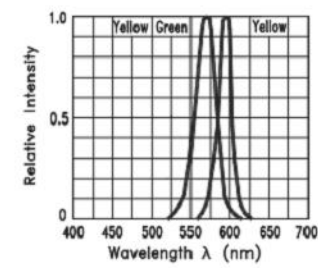


Fig.1 Relative Intensity vs. Wavelength

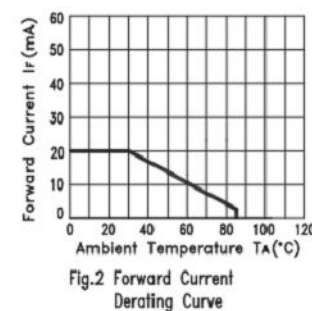


Fig.2 Forward Current Derating Curve

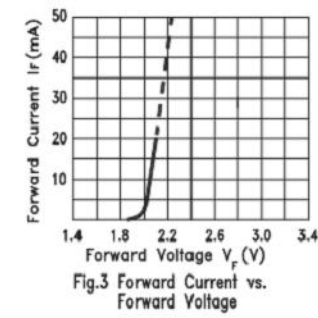


Fig.3 Forward Current vs. Forward Voltage

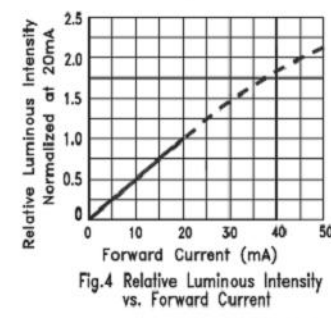


Fig.4 Relative Luminous Intensity vs. Forward Current

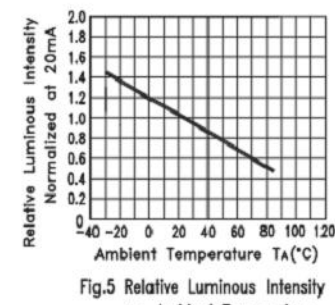


Fig.5 Relative Luminous Intensity vs. Ambient Temperature

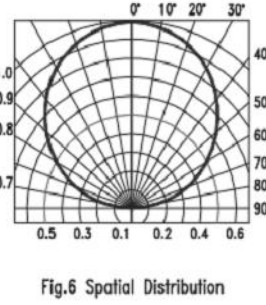


Fig.6 Spatial Distribution

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