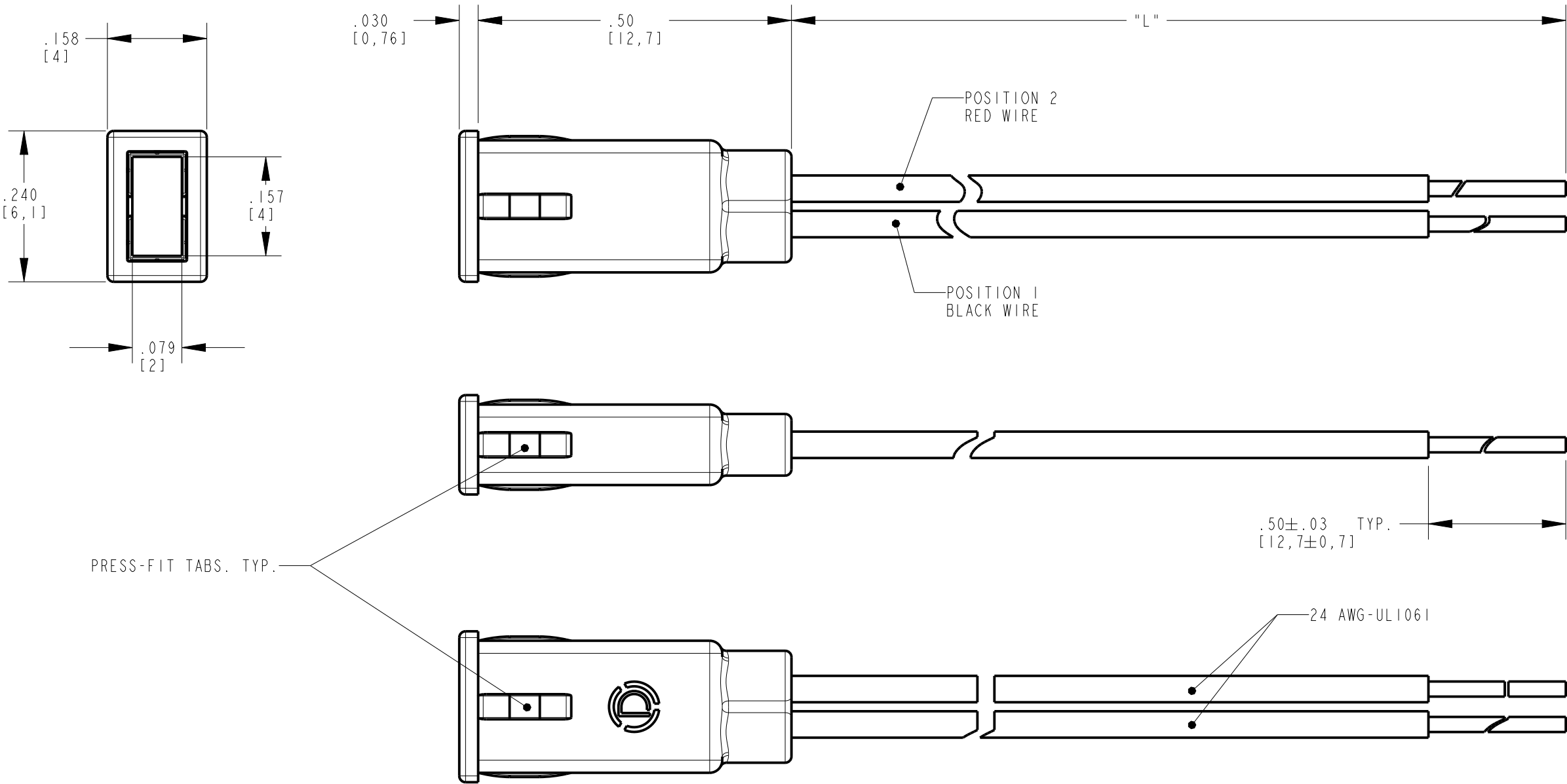


PART No:	COLOR	DIE	Vf(V)		TYP. If(mA)	LED EPOXY COLOR	DOM. WAVELENGTH(nm)			INTENSITY(mc d)		REVERSE CURRENT(μA)	VIEWING ANGLE	ABSOLUTE MAXIMUM RATINGS AT Ta=25C				
			TYP.	MAX.			MIN.	TYP.	MAX.	MIN.	TYP.	MAX.		POWER DISSIPATION (mW)	PEAK FORWARD CURRENT(mA)	DC FORWARD CURRENT(mA)	OPERATING TEMP.	STORAGE 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	GdP	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		

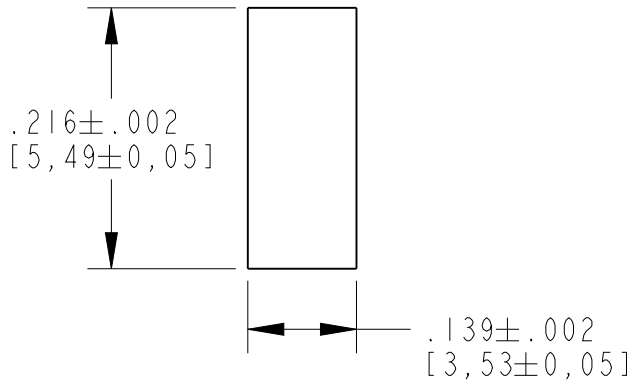
REV	REVISIONS	DRN	APP	DATE
A	NEW RELEASE	JGL	SK	10/19/2020
B	UPDATED CHARTS	JGL		01/11/2021



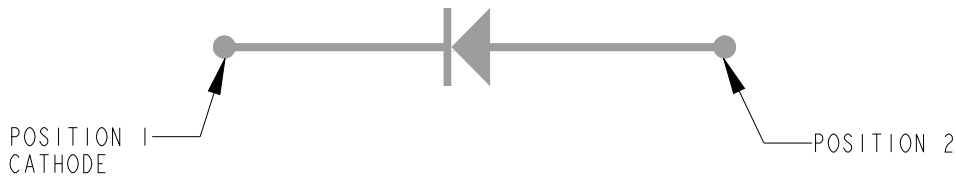
PART NUMBER	COLOR	POSITION 1 (BLACK WIRE)	POSITION 2 (RED WIRE)	"L"
559-8100-007F	RED	CATHODE		14.1"±0.12[358±3]
559-8200-007F	GREEN	CATHODE		14.1"±0.12[358±3]
559-8300-007F	YELLOW	CATHODE		14.1"±0.12[358±3]
559-8120-007F	RED ORANGE	CATHODE		14.1"±0.12[358±3]
	GREEN		CATHODE	
559-8320-007F	YELLOW	CATHODE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

- 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.

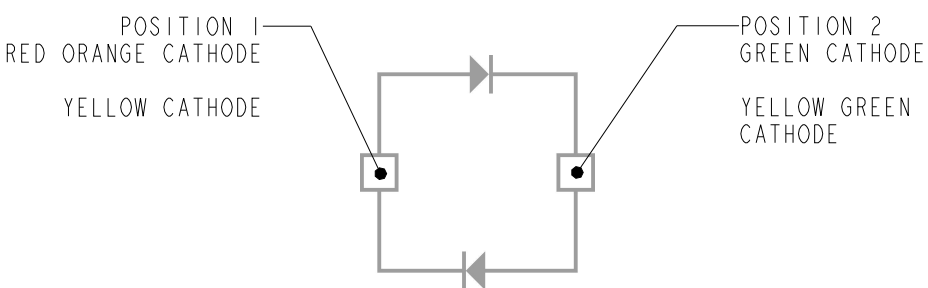
RECOMMENDED MOUNTING HOLE



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 : 5598XX0007F-A.2			
SCALE: 5.000		DRAWING NUMBER	
ALL DIM'S IN: INCHES (MM)		C-18489	
TOLERANCES: UNLESS OTHERWISE SPECIFIED		REV	
FRACTIONS: ±1/64		B	
DECIMALS (.XX): ±.01		TITLE	
DECIMALS (.XXX): ±.005		RECT PMI IND	
DECIMALS (.XXXX): ±.0005		MATERIAL	
ANGLES: ±1°			
FINISH			
FSCM 83330		 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 (732) 919-3119 www.dialight.com	
SHEET 1 OF 2		FAMILY TABLE:	

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

PART NUMBER: 559-8100-007F

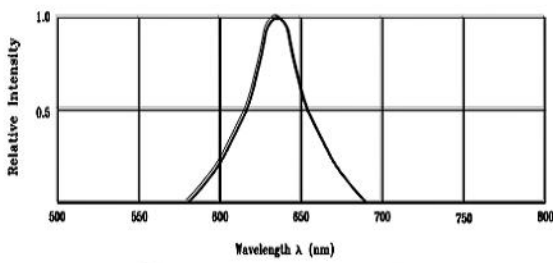


Fig.1 Relative Intensity vs. Wavelength

PART NUMBER: 559-8200-007F

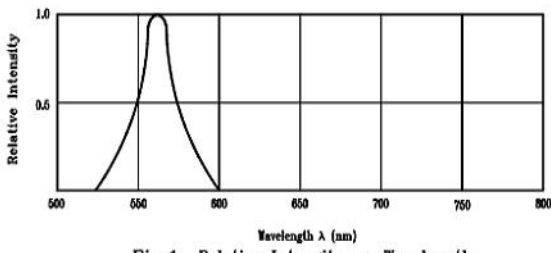


Fig.1 Relative Intensity vs. Wavelength

PART NUMBER: 559-8300-007F

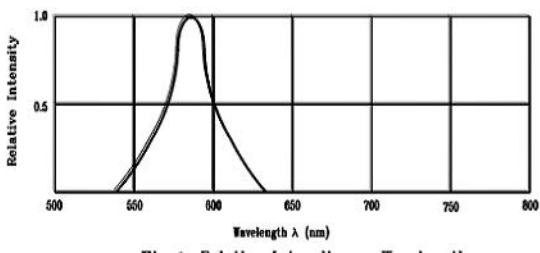
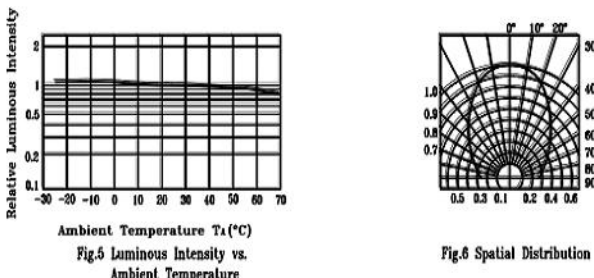
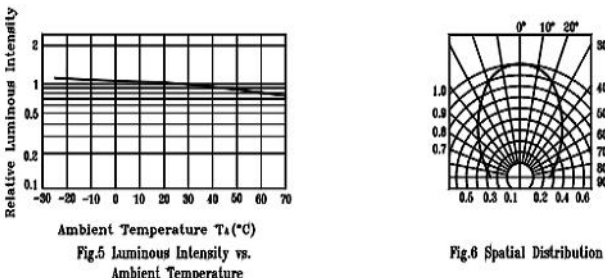
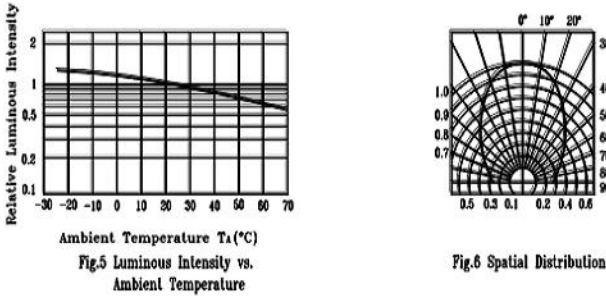
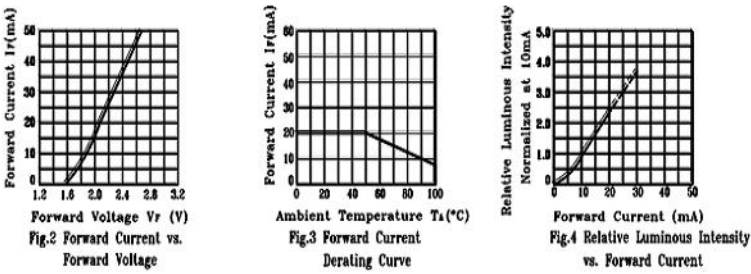
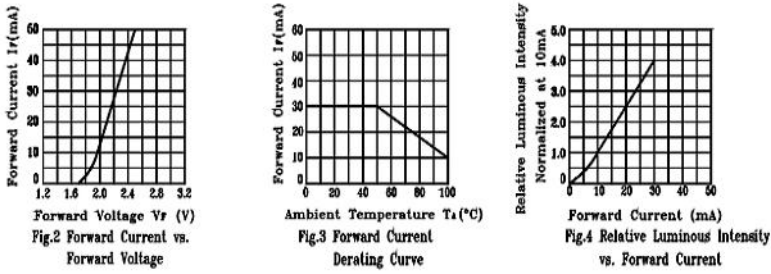
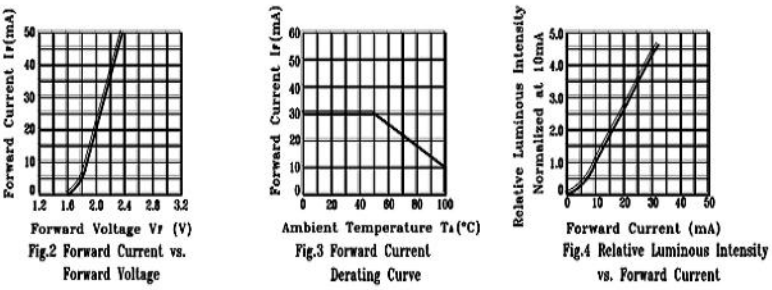


Fig.1 Relative Intensity vs. Wavelength



PART NUMBER: 559-8120-007F

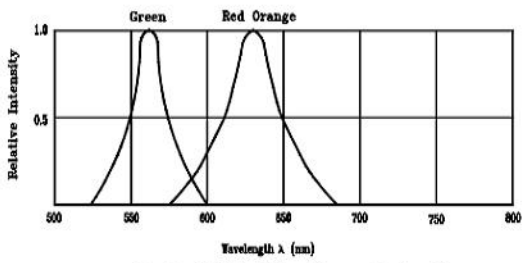


Fig.1 Relative Intensity vs. Wavelength

PART NUMBER: 559-8320-007F

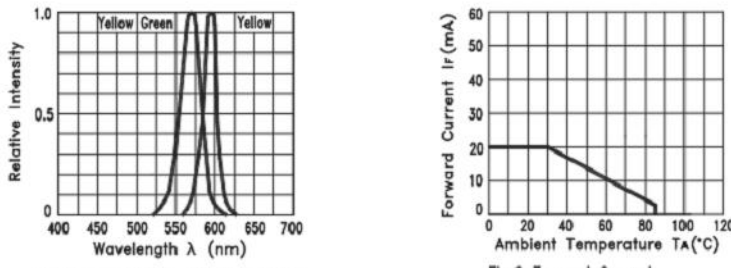


Fig.1 Relative Intensity vs. Wavelength

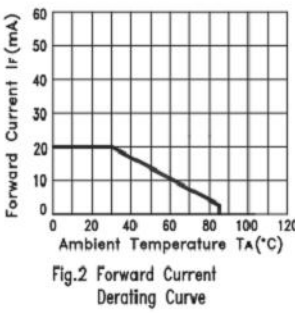
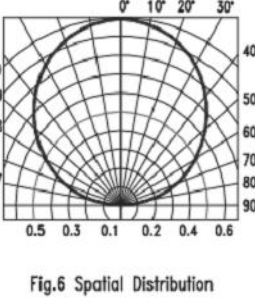
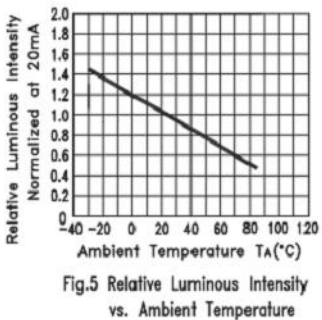
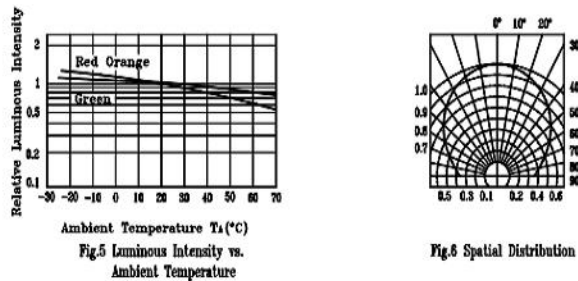
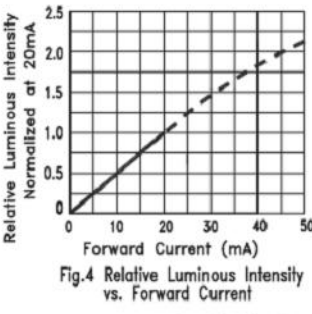
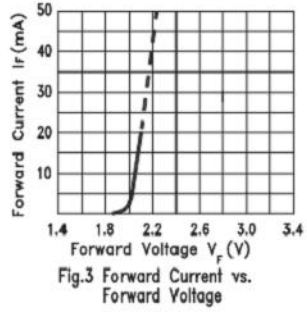
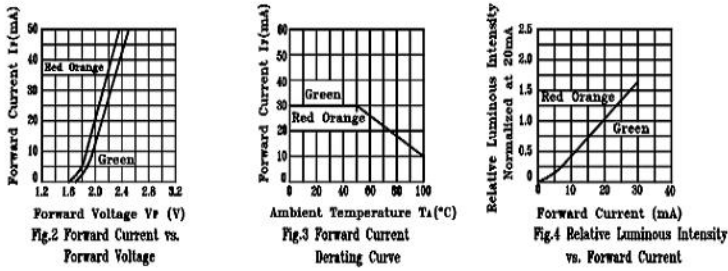


Fig.2 Forward Current Derating Curve



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DIALIGHT CORP. INTERNAL REFERENCE ONLY - 3D MODEL: 559810007F-A.2		
SCALE: 5.000	DRAWING NUMBER	REV
ALL DIM'S IN: INCHES (MM)	C-18489	A
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE	
FRACTIONS: ±1/64	RECT PMI IND	
DECIMALS (.XX): ±.01	MATERIAL	
DECIMALS (.XXX): ±.005		
DECIMALS (.XXXX): ±.0005		
ANGLES: ±1°		
FINISH		
	Dialight 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 (732) 919-3119 www.dialight.com	
FSCM 83330		
	SHEET 2 OF 2 FAMILY TABLE:	