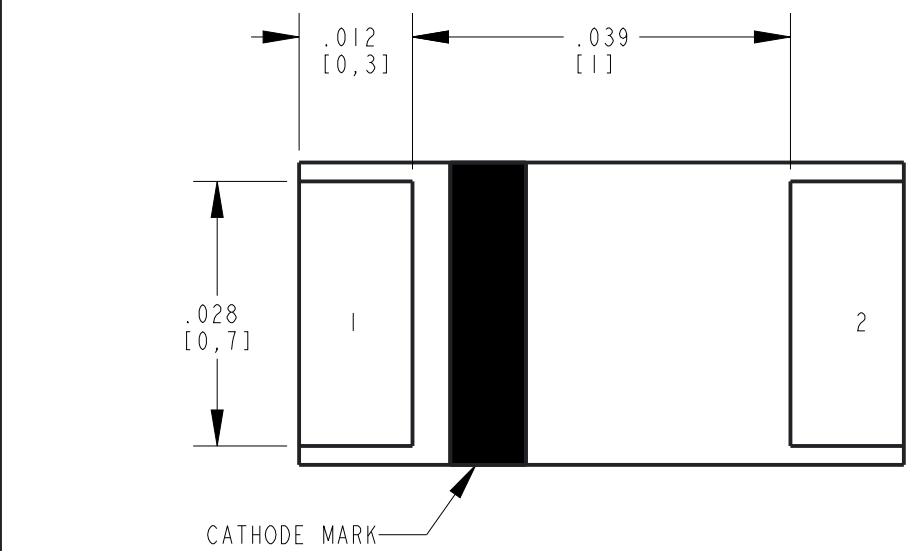
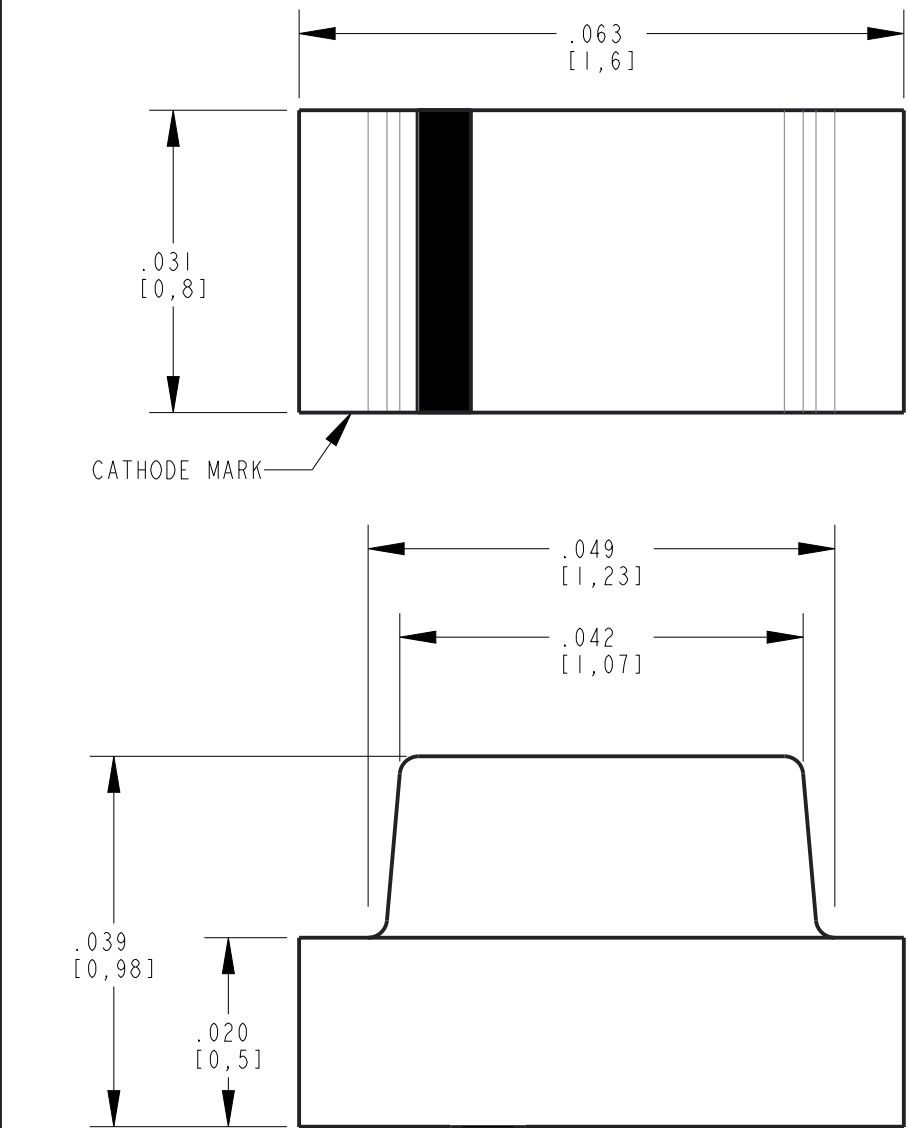
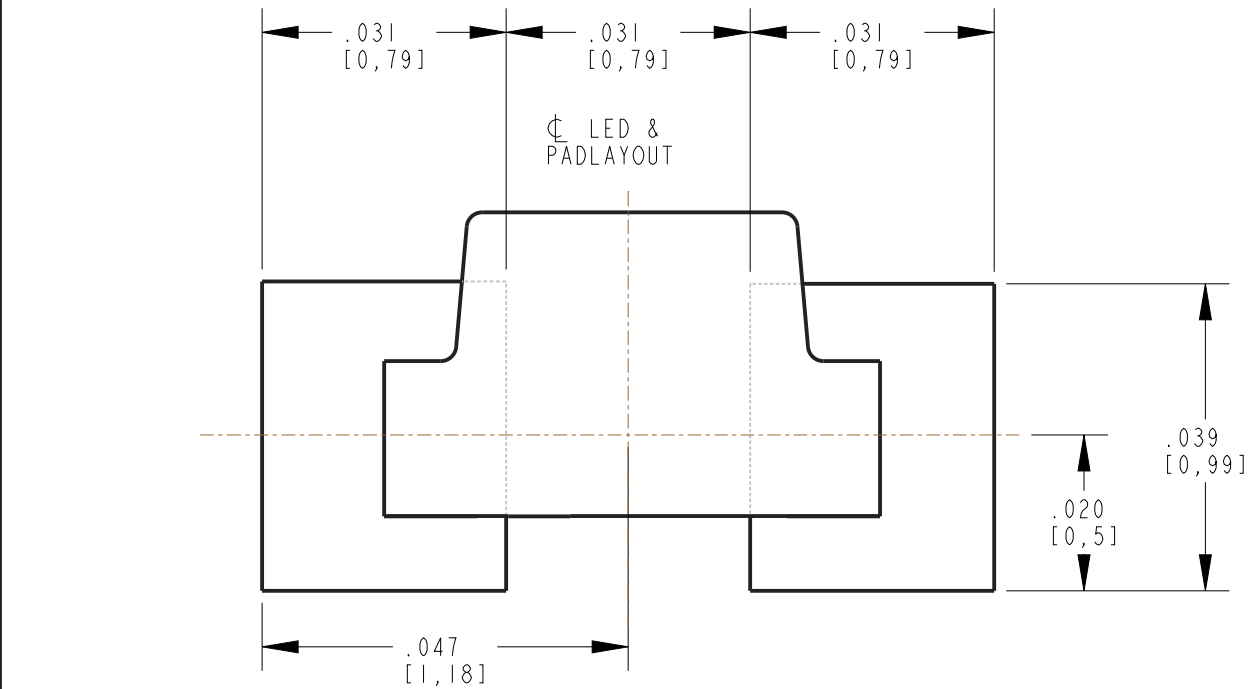


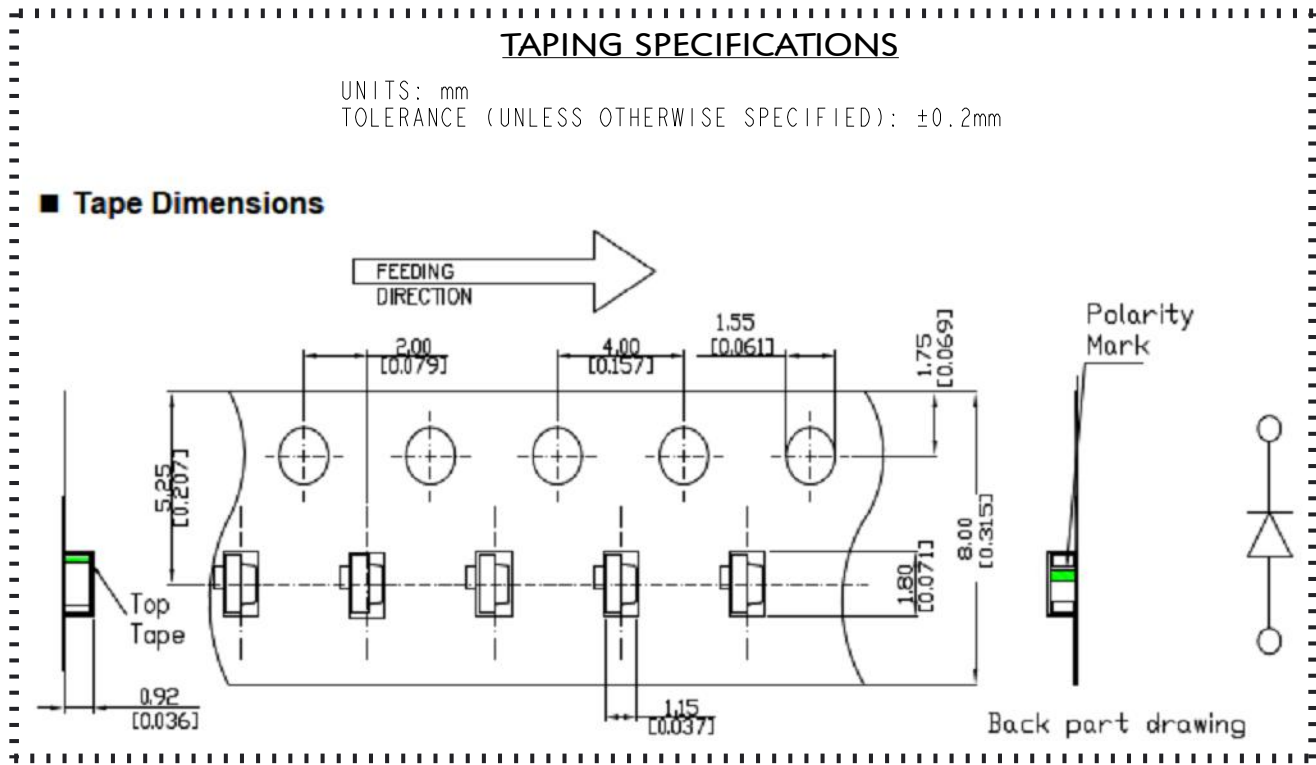
DIALIGHT PART NO	LED COLOR (nm)
598-8D10-102F,107F	RED (630)
598-8D20-102F,107F	RED ORANGE (625)
598-8D30-102F,107F	ORANGE (605)
598-8D40-102F,107F	YELLOW (590)
598-8D60-102F,107F	YELLOW GREEN (570)
598-8D80-102F,107F	GREEN (525)
598-8D90-102F,107F	BLUE (470)



RECOMMENDED PAD LAYOUT



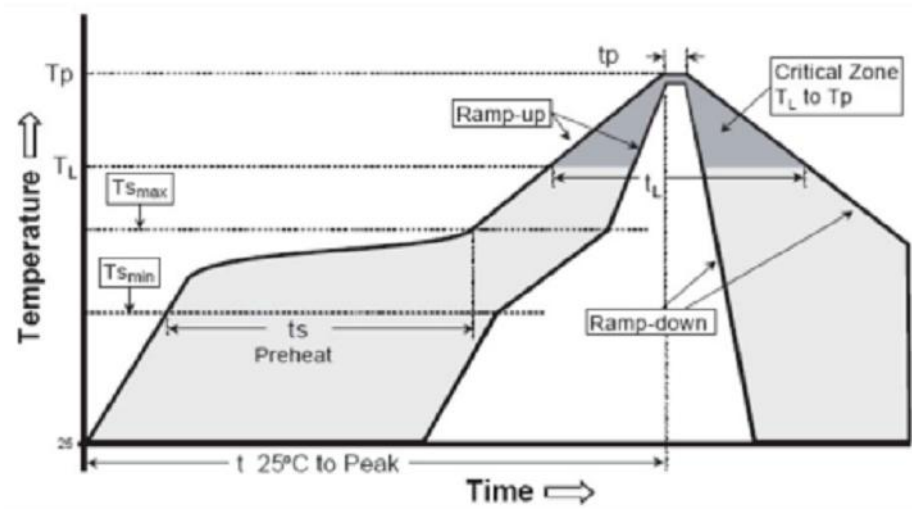
ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES



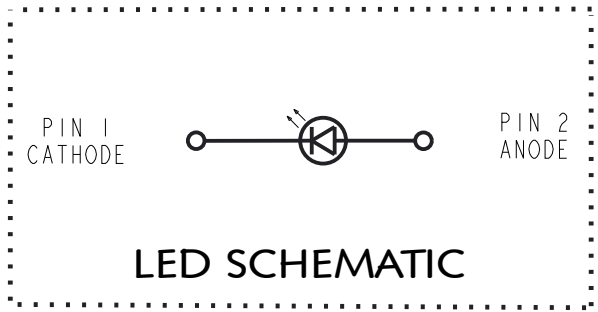
ELECTRICAL OPTICAL CHARACTERISTICS AT 25°C													
LED COLOR	TEST CONDITION	LUMINOUS INTENSITY (mcd)			DOMINANT WAVELENGTH (nm)			REVERSE CURRENT (µA)	SPECTRAL LINE HALF-WIDTH (nm)	FORWARD VOLTAGE (VF=5mA)		VIEWING ANGLE (VF=20mA)	THERMAL RESISTANCE (VF=20mA) (°C/W)
	IF (mA)	MIN.	TYP.	MAX.	MIN	TYP.	MAX	MAX	TYP	TYP.	MAX.	TYP	MAX
RED	20	30	—	90	630	635	640	10	15	1.8	2.4	140	450
RED ORANGE		150	240	330	620	625	630			1.8	2.4		
ORANGE		90	145	200	600	605	610			1.8	2.4		
YELLOW		120	160	200	585	590	595			1.8	2.4		
YELLOW GREEN		28	54	80	565	570	575			1.8	2.4		
GREEN		70	135	200	510	525	535			2.8	3.5		
BLUE		350	440	530	460	468	475			2.8	3.5		

ABSOLUTE MAXIMUM RATINGS AT 25°C													
LED COLOR	POWER DISSIPATON (mW)	FORWARD CURRENT (mA)	PEAK FORWARD CURRENT (mA)	ELECTROSTATIC DISCHARGE (V)	OPERATING TEMPERATURE (°C)	STORAGE TEMPERATURE (°C)	SOLDERING CONDITION (°C)	JUNCTION TEMPERATURE (°C)					
RED	72	30	60	2000	-40 to +85	-40 to +100	260	95					
RED ORANGE													
ORANGE				1000									
YELLOW													
YELLOW GREEN	105	20											
GREEN													
BLUE	70	20											

RECOMMENDED RoHS SOLDER PROFILE



MARK	DEFINITION	CONDITION
TS _{max}	Maximum of pre-heating temperature	200 °C
TS _{min}	Minimum of pre-heating temperature	150 °C
TS	Time form Tsmin to Tsmax	60-120 sec
TL	Reference temperature	217 °C
tL	Retention time for TL	within 60s
TP	Peak Temperature	260 °C
tp	Time for peak temperature	within 10s
DTr/Dt	Temperature rising rate	under 6° C/sec
DTd/Dt	Temperature decreasing rate	under -3° C/sec



NOTES:

- QUANTITY IS 4,000 PCS PER REEL.
- PIN NUMBERS ARE FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING AND STORAGE IN ACCORDANCE WITH IPC-A-610.
- THIS PRODUCT IS RoHS COMPLIANT. EACH BAG IS TO BE MARKED WITH RoHS COMPLIANT LABEL OR EQUIVALENT MARKINGS. LED MUST BE Pb FREE.

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DIALIGHT CORP INTERNAL REFERENCE ONLY - 3D MODEL : 4500521848X15-A-1			
SCALE: 35.00	DRAWING NUMBER	REV	
ALL DIM'S IN: INCHES (MM)	C18447	D	
TOLERANCES: UNLESS OTHERWISE SPECIFIED			
FRACTIONS: ±1/64	TITLE		
DECIMALS (.XX): ±.01			
DECIMALS (.XXX): ±.005	0603 RT ANGLE		
DECIMALS (.XXXX): ±.0005			
ANGLES: ±1°			
FINISH	MATERIAL		
Dialight			1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 (732) 919-3119 www.dialight.com
FSCM 83330	SHEET 1 OF 1 FAMILY TABLE:		

598-8D90-107F/102F SM LED 0603 RIGHT ANGLE BLUE 470nm

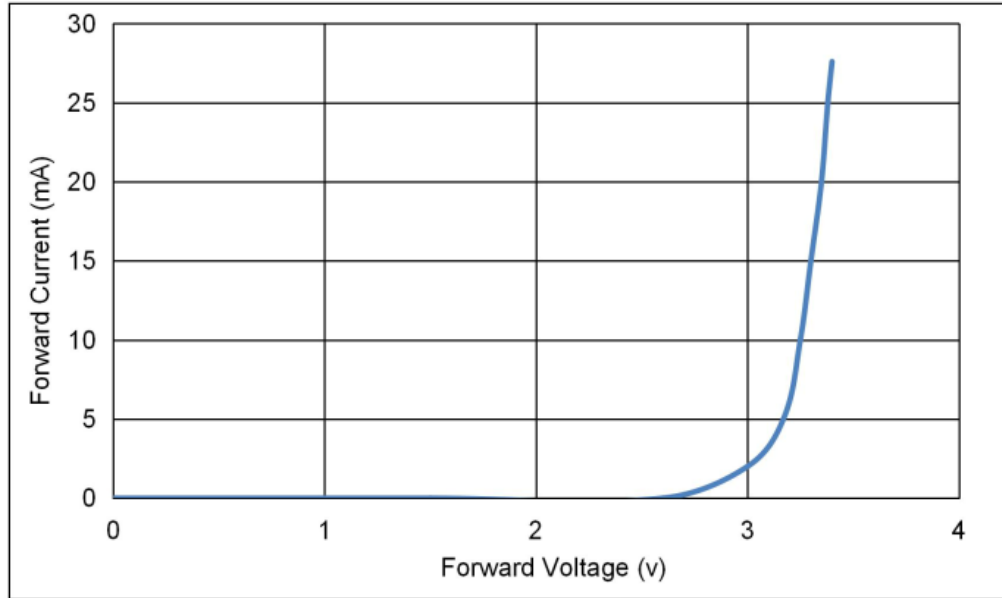


Fig 1-6 Forward Voltage Vs Forward Current

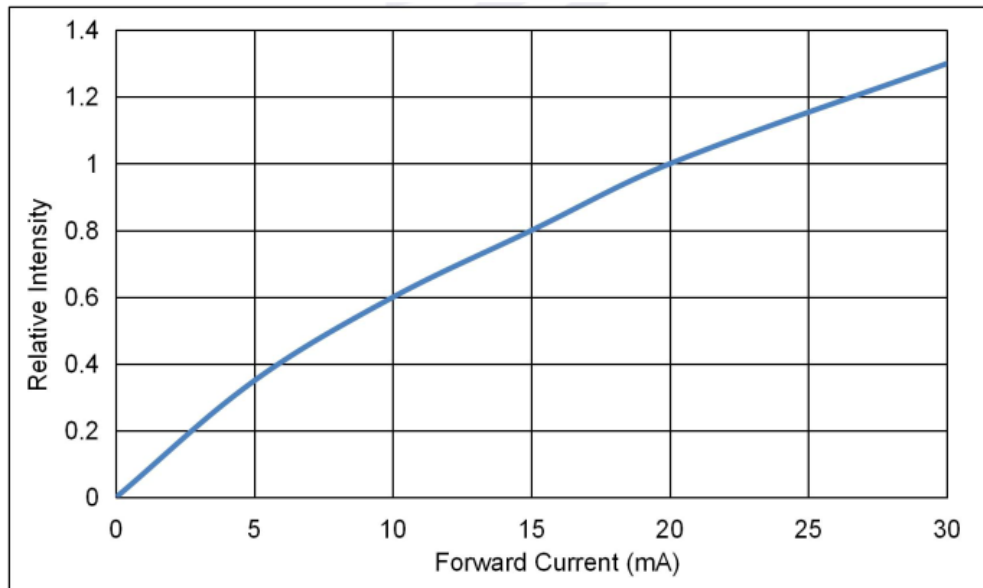


Fig 1-7 Forward Current Vs Relative Intensity

598-8D90-107F/102F

SM LED 0603 RIGHT ANGLE

BLUE 470nm

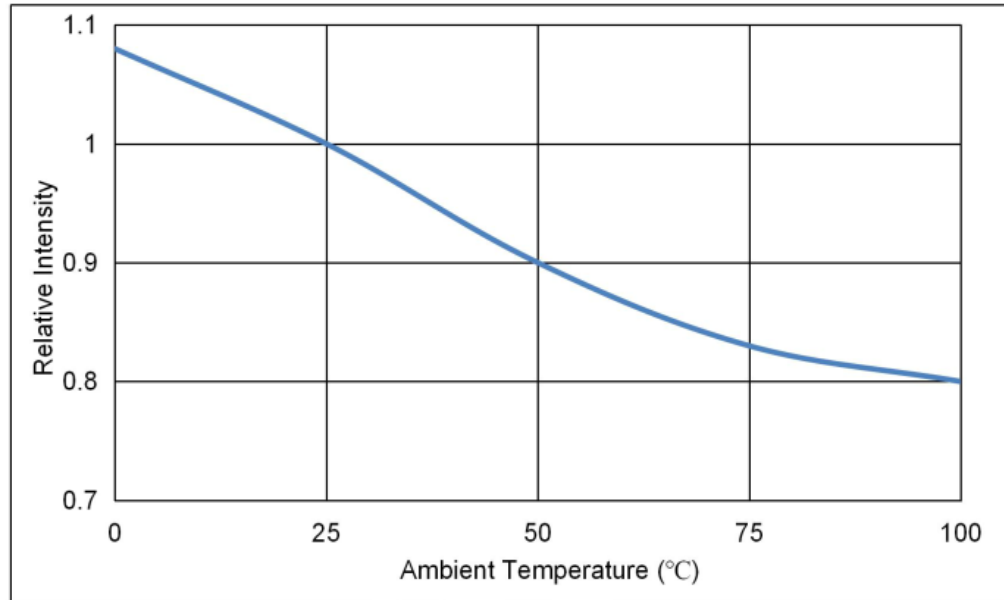


Fig 1-8 Pin Temperature Vs Relative Intensity

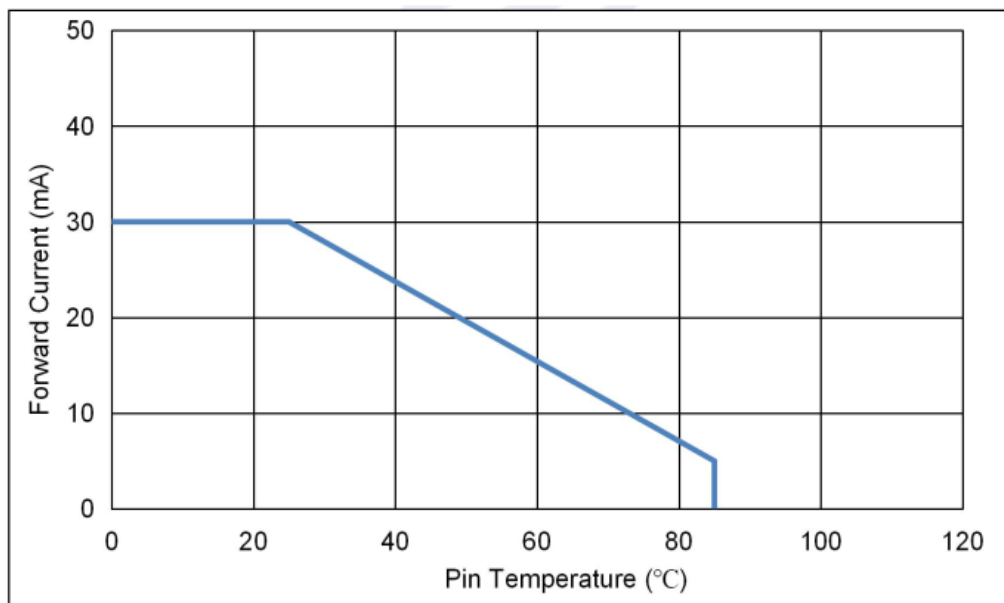


Fig 1-9 Pin Temperature Vs Forward Current

598-8D90-107F/102F SM LED 0603 RIGHT ANGLE BLUE 470nm

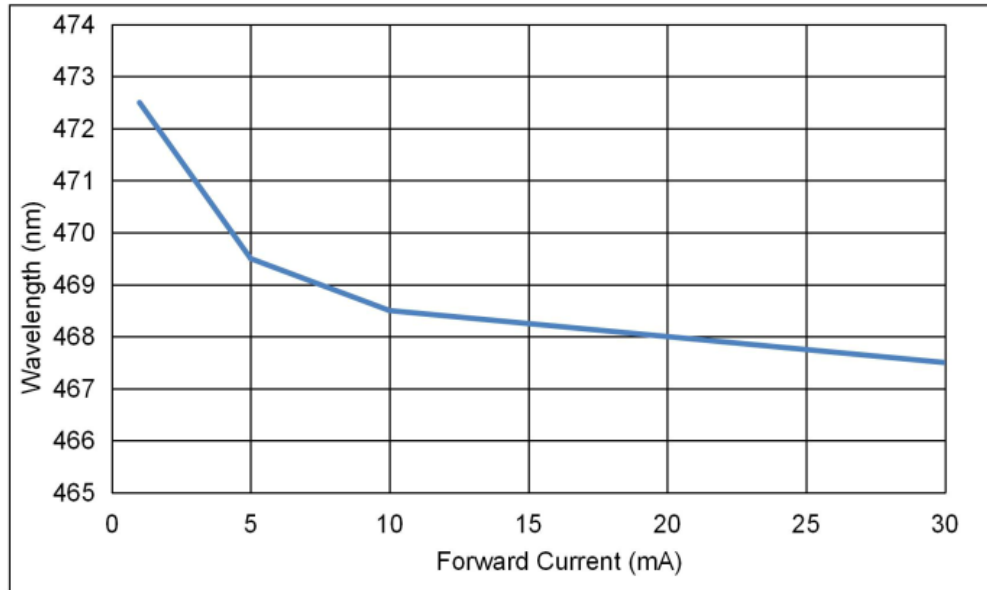


Fig 1-10 Forward Current Vs Dominate Wavelength (Ta=25°C)

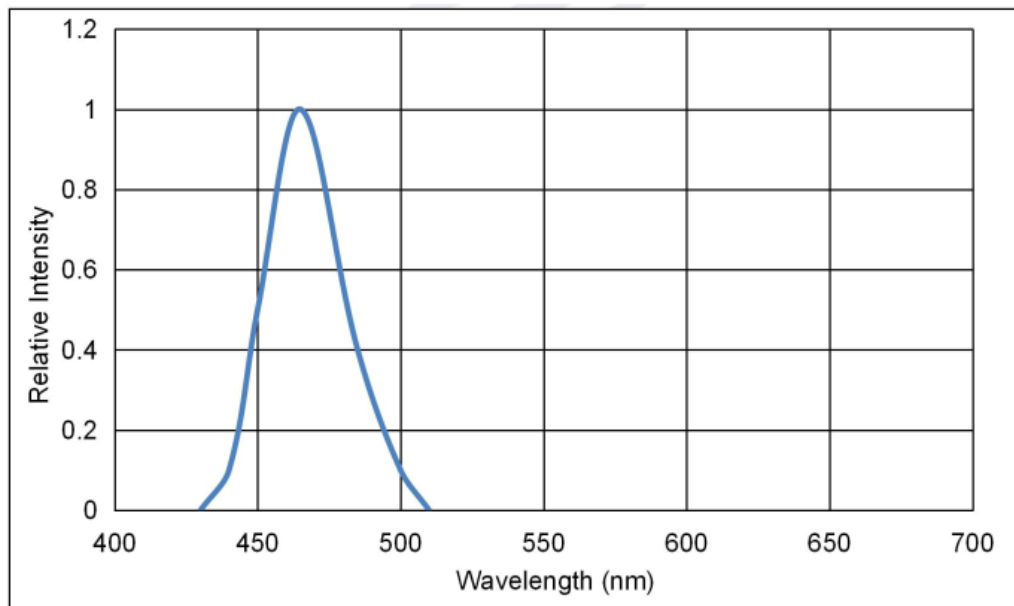


Fig 1-11 Relative Intensity Vs Wavelength (Ta=25°C)

598-8D90-107F/102F
SM LED 0603 RIGHT ANGLE
BLUE 470nm

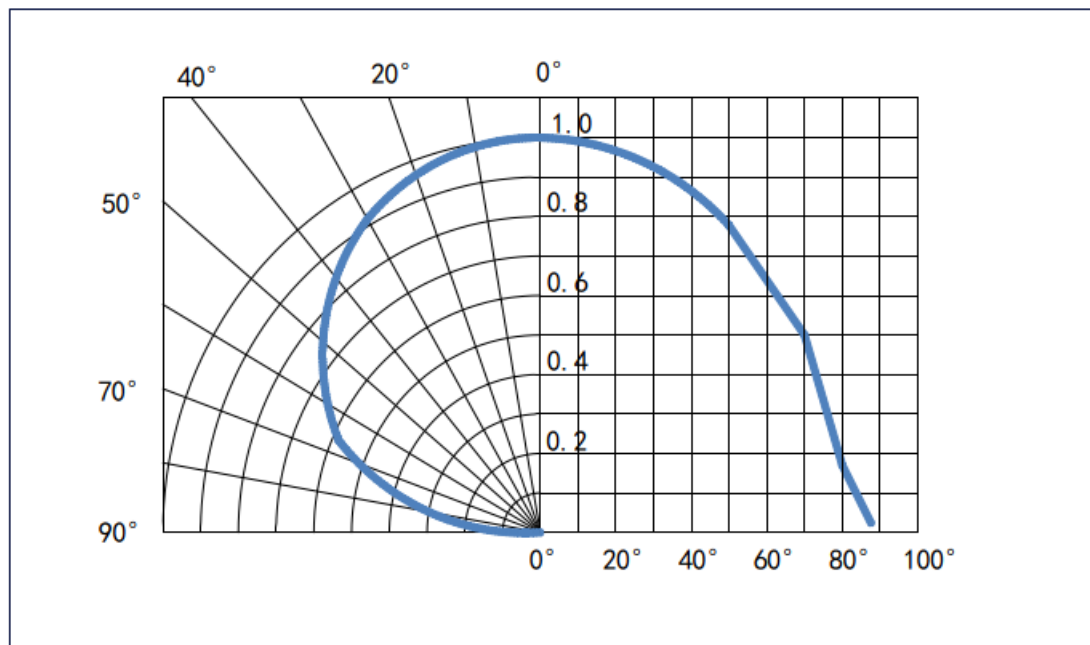


Fig 1-12 Diagram characteristics of radiation