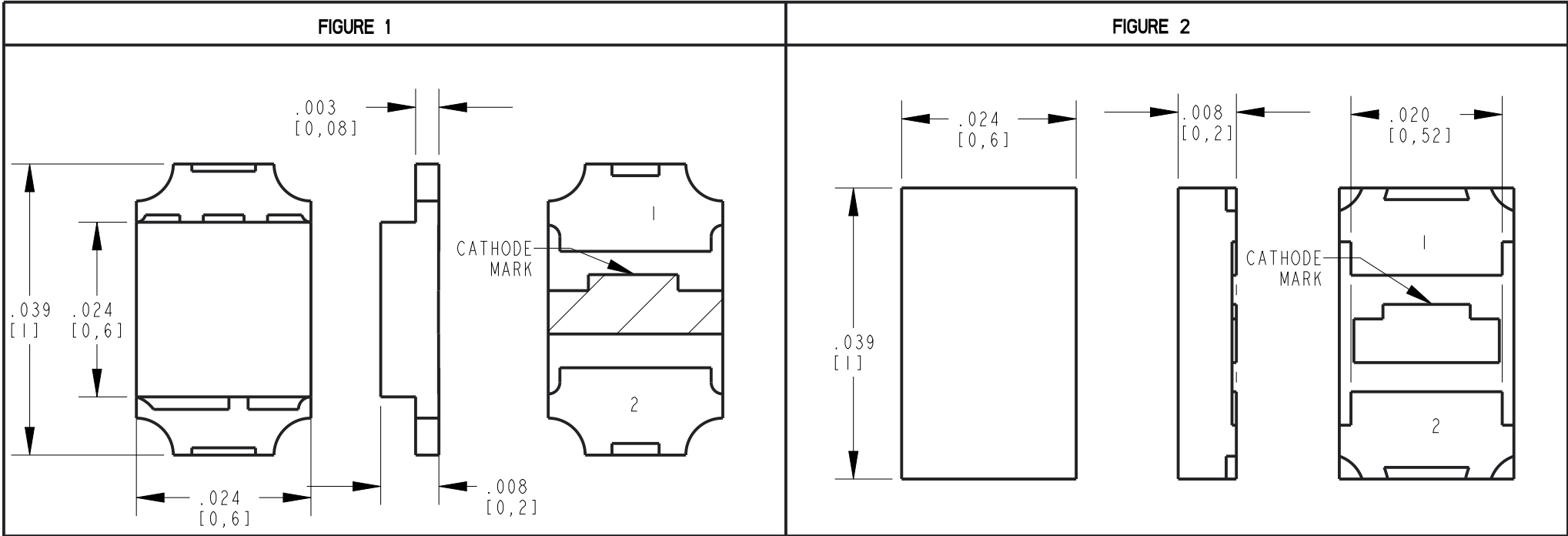


DIALIGHT PART NUMBER	FIG.	COLOR	LED DIE	LED EPOXY COLOR
597-3007-502F, -507F	I	RED	AlGaInP ON GaAs	WATER CLEAR
597-3027-502F, -507F	I			
597-3207-502F, -507F	I	ORANGE		
597-3407-502F, -507F	I	YELLOW	AlGaInP ON GaAs	
597-3507-502F, -507F	I	YELLOW GREEN		
597-3907-502F, -507F	2	WHITE	InGaN	DIFFUSED WHITE

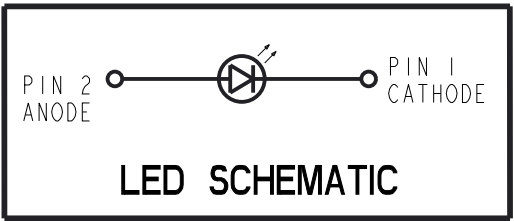
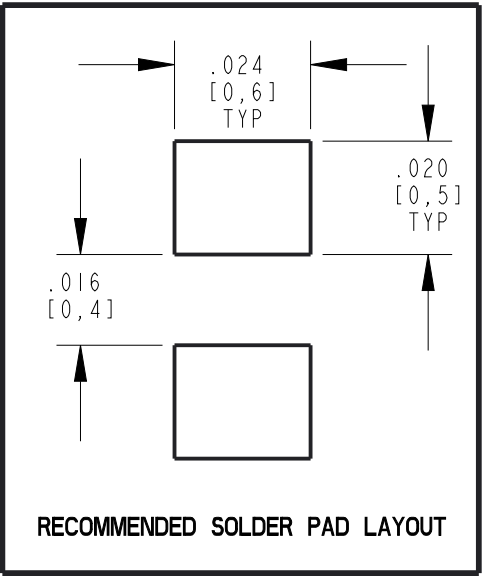
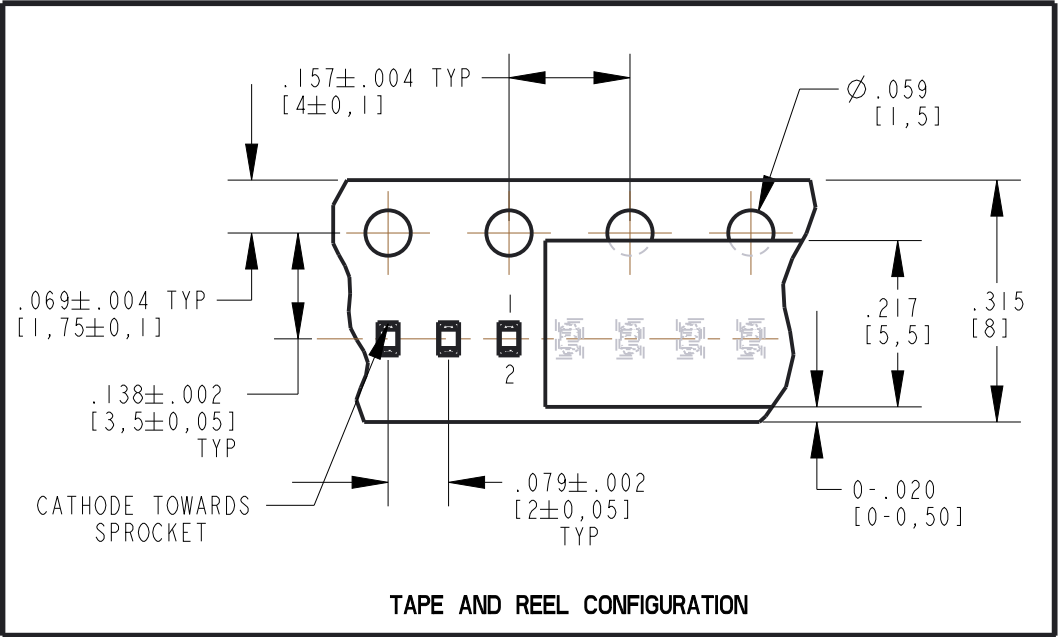
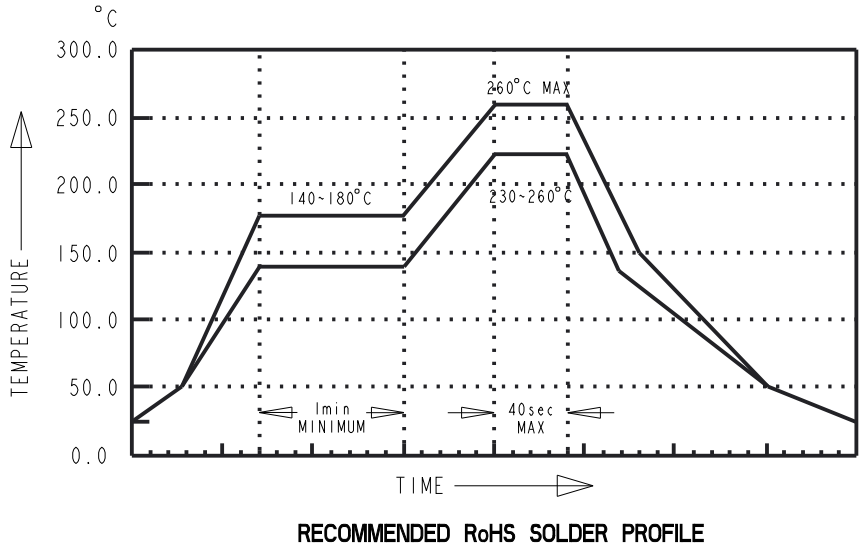
- NOTES:
- DIALIGHT PART NUMBERS: 597-3XX7-50XF.
 - TAPE & REEL MAY REQUIRE RE-TAPING AFTER 12 MONTHS.
 - PIN NUMBERS ARE FOR REFERENCE ONLY.
DESIGNATION NON-EXISTENT ON PART OR REEL TAPE.
 - ...502F SUFFIX MEANS PARTS PACKAGED ON A 20 PC SAMPLE STRIP.
...507F SUFFIX MEANS PARTS PACKAGED ON A 7" [Ø180mm] REEL, 5,000 PCS/REEL.
 - MOISTURE SENSITIVITY LEVEL: 3
 - PACKAGING TO INCLUDE LABEL CONTAINING DIALIGHT PART NUMBER, DATE CODE/LOT NO., LUMINOUS INTENSITY AND COLOR BINS, QTY/REEL, AND COUNTRY OF ORIGIN.
 - THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.
 - * CHROMATICITY COORDINATES (TYP)



OPERATING CHARACTERISTICS AT 25°C AMBIENT													
COLOR	LUMINOUS INTENSITY			FORWARD VOLTAGE			REVERSE CURRENT		DOMINANT WAVELENGTH				VIEWING ANGLE
	I _F	MIN (mcd)	TYP (mcd)	I _F	TYP (V)	MAX (V)	V _R	MAX (μA)	I _F	MIN (nm)	TYP (nm)	MAX (nm)	TYP (DEG)
RED (630nm)	20 mA	40	100	20 mA	2.0	2.6	5V	10	20 mA	625	630	635	135
RED (620nm)		40	160		615	620				625			
ORANGE		63	250		602	605				608			
YELLOW		40	130		587	590				593			
YELLOW GREEN		10	25		569	572				575			
WHITE		90	150							*(X,Y) (0.30,0.30)			

ABSOLUTE MAXIMUM RATINGS (25°C AMBIENT)	COLOR					UNITS
	RED (630nm)	RED (620nm)	ORANGE	YELLOW	YELLOW GREEN	
POWER DISSIPATION	50		52		54	mW
FORWARD CURRENT			20		10	mA
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 1kHz)			100		50	mA
DERATE LINEARLY FROM 40°C (BLUE AND WHITE DERATE LINEARLY FROM 25°C)			0.26		0.26	.125 mA/°C
REVERSE VOLTAGE			5			V
STORAGE TEMPERATURE			-40 TO +100			°C
OPERATING TEMPERATURE			-40 TO +85			°C

REV	ECN	REVISIONS	DRN	CKD	APP	DATE
A		NEW RELEASE	WFB	JTD	NO	11-20-12
B		ADDED P/N 597-3327-502F, -507F	WFB	JTD	KLJ	9-11-13
C		UPDATED LED CHARACTERISTICS	VP	JTD	NO	2-9-16
D		ADDED DIMENSIONS TO THE PART	LD		NO	3-15-21
E	95009	REMOVED 597-3607-502F, 507F (BLUE)	LD	CS	NO	8-31-22
F	106364	ADDED FIGURE 2	LD	CS	NO	6-16-23
G	117159	REMOVED P/N 597-3327-502F, -507F	LD	c s		4-18-24



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DIALIGHT CORP INTERNAL REFERENCE ONLY = 3D MODEL : 5973XX750XF.PCB-A-2		
SCALE: 9.000	DRAWING NUMBER	REV
ALL DIM's: INCH (mm)		
TOLERANCES: UNLESS OTHERWISE SPECIFIED	C-18001	G
FRACTIONS: ±1/64	TITLE	
DECIMALS (.XX): ±.01	0402 SINGLE COLOR SMT LED	
DECIMALS (.XXX): ±.005	MATERIAL	
DECIMALS (.XXX): ±.0005		
ANGLES: ±1°		
FINISH		
FSCM 83330	SHEET 1 OF 1	FAMILY TABLE: