

DIALIGHT PART NUMBER	COLOR	LED DIE	LED EPOXY COLOR
597-3007-502F, -507F	RED	AlGaInP ON GaAs	WATER CLEAR
597-3027-502F, -507F			
597-3207-502F, -507F			
597-3327-502F, -507F			
597-3407-502F, -507F			
597-3507-502F, -507F	YELLOW GREEN	InGaN	DIFFUSED WHITE
597-3607-502F, -507F	BLUE		
597-3907-502F, -507F	WHITE		

RoHS COMPLIANT 597-3XX7-50XF

Part Numbers with the "F" suffix ending are RoHS Compliant.
For example: 597-3027-502F
Reel and bag packaging are marked with "RoHS Compliant"
label or equivalent markings. These parts can be used with
RoHS reflow profile. Parts can be wave soldered, dip soldered
or hand soldered using typical lead-free soldering process
with max 260°C temp. for 5 sec.

REV	ECN NO	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



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

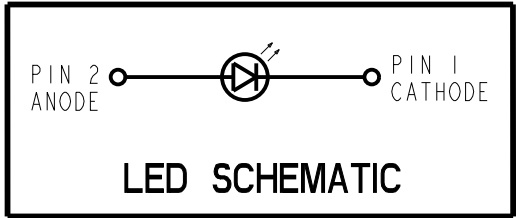
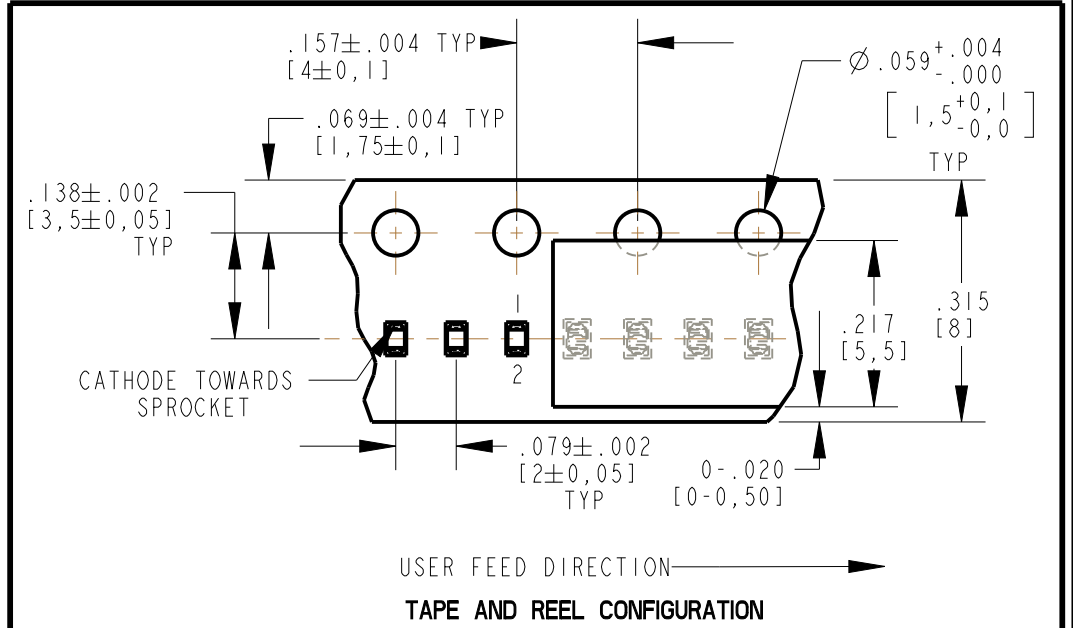
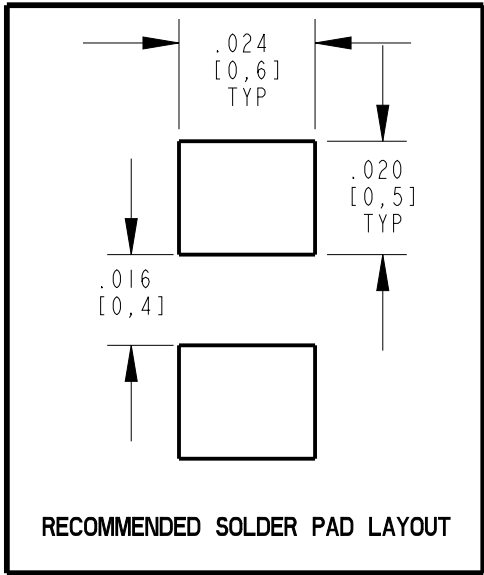
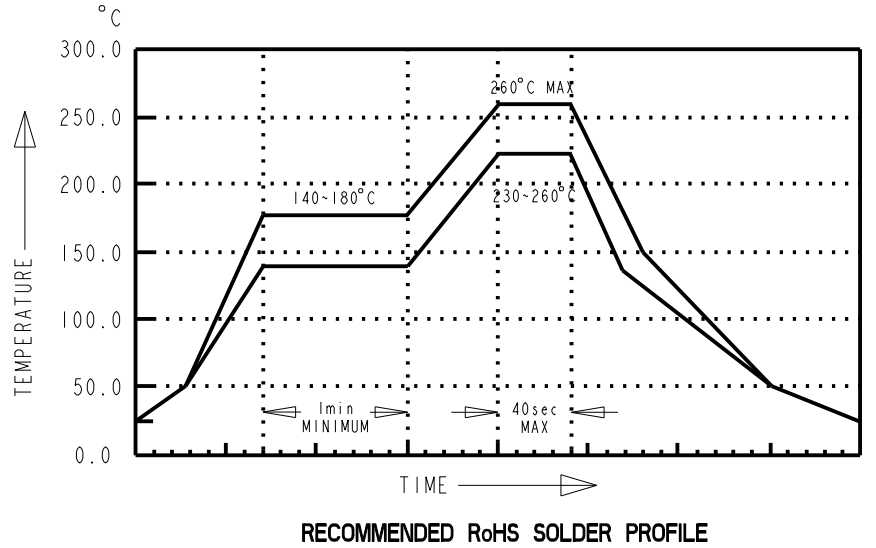
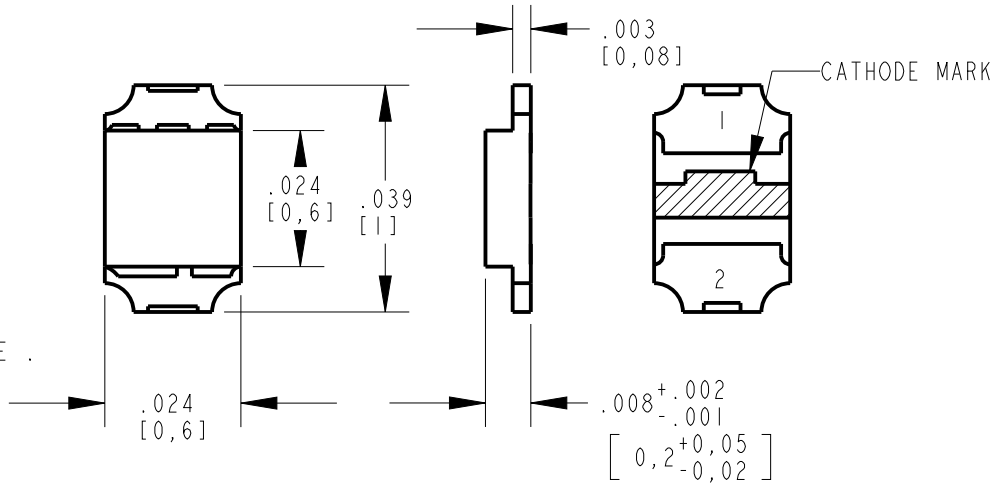
NOTES:

1. DIALIGHT PART NUMBERS: 597-3XX7-50XF.
2. TAPE & REEL MAY REQUIRE RE-TAPING AFTER 12 MONTHS.
3. PIN NUMBERS ARE FOR REFERENCE ONLY. DESIGNATION NON-EXISTENT ON PART OR REEL TAPE .
4. ...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.
5. MOISTURE SENSITIVITY LEVEL: 3
6. PACKAGING TO INCLUDE LABEL CONTAINING DIALIGHT PART NUMBER, DATE
CODE/LOT NO., LUMINOUS INTENSITY AND COLOR BINS, QTY/REEL, AND COUNTRY OF ORIGIN.
7. THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE
DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING
ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.
8. * 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)	V _R	MAX (mA)	I _F	MIN (nm)	TYP (nm)	MAX (nm)	TYP (DEG)
RED (630nm)	20 mA	25	60	20 mA	2.0	4V	100	20 mA	625	630	635	135
RED (620nm)			85						615	620	625	
ORANGE			40						100	2.1	602	
YELLOW		130		587	590				593			
GREEN		4.0		13	557				560		563	
YELLOW GREEN		10	35	2.2	569				572	575		
BLUE	5 mA	5.6	17		5 mA			465	470	475		
WHITE	36	71	5 mA					*(X,Y) (0.30,0.30)				

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT	COLOR								UNITS
	RED (630nm)	RED (620nm)	ORANGE	YELLOW	GREEN	YELLOW GREEN	BLUE	WHITE	
POWER DISSIPATION	50		52		54		66		mW
CONTINUOUS FORWARD CURRENT	20								mA
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 1kHz)	100								mA
DERATE LINEARLY FROM 40°C (BLUE AND WHITE DERATE LINEARLY FROM 60°C)	0.22						0.40		mA/°C
REVERSE VOLTAGE	5								V
STORAGE TEMPERATURE	-40 TO +100								°C
OPERATING TEMPERATURE	-40 TO +85								°C



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SCALE: 30.000	DRAWING NUMBER	REV
ALL DIM'S IN: INCHES (MM)	C-18001	B
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE	0402 SINGLE COLOR SMT LED
FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.002 DECIMALS (.XXXX): ±.0005 ANGLES: ±1°	MATERIAL	-
FINISH:	Dialight	1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727
FSCM 83330	SHEET 1 OF 1	FAMILY TABLE: