

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	ORANGE	InGaN	
597-3327-502F, -507F	GREEN		
597-3407-502F, -507F	YELLOW	AlGaInP ON GaAs	
597-3507-502F, -507F	YELLOW GREEN		
597-3607-502F, -507F	BLUE	InGaN	
597-3907-502F, -507F	WHITE		DIFFUSED 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
C	—	UPDATED LED CHARACTERISTICS	VP	JTD	NO	2-9-16



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

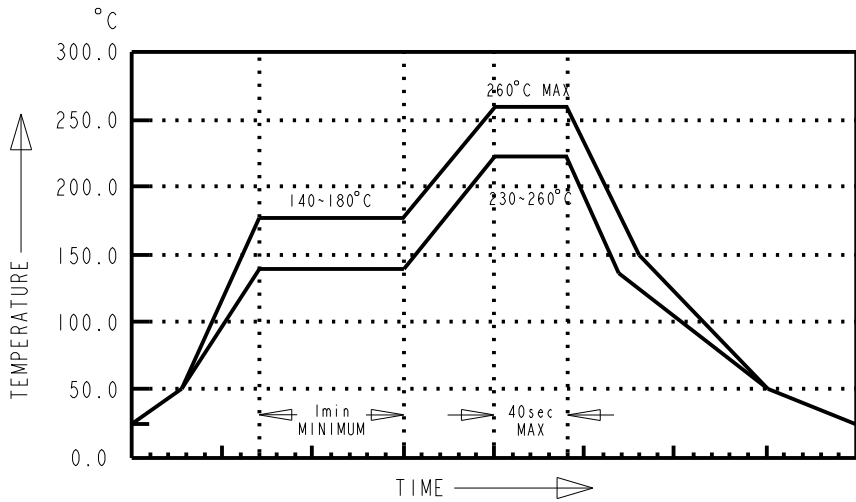
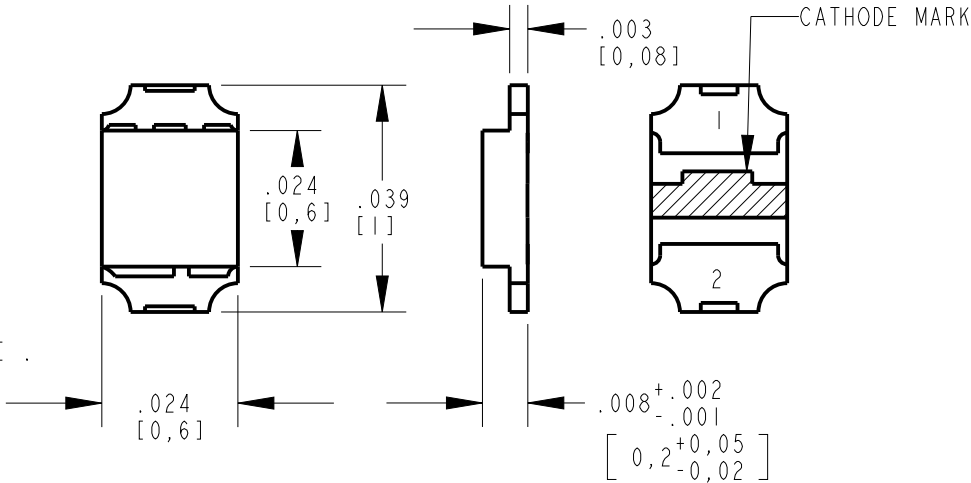
NOTES:

- 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

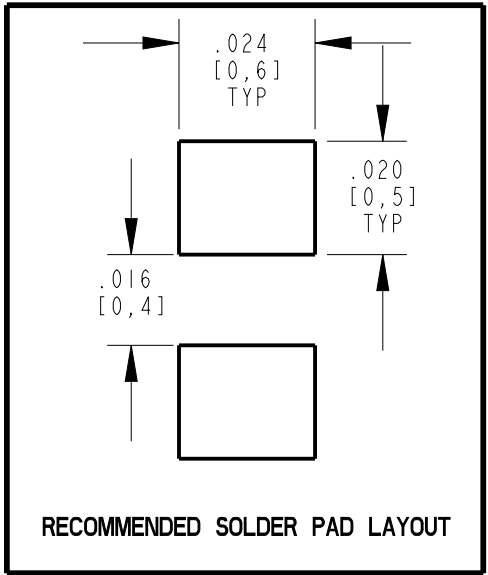
COLOR	LUMINOUS INTENSITY			FORWARD VOLTAGE		REVERSE CURRENT		DOMINANT WAVELENGTH				VIEWING ANGLE
	I _F	MIN (mcd)	TYP (mcd)	I _F	TYP (V)	V _R	MAX (μA)	I _F	MIN (nm)	TYP (nm)	MAX (nm)	TYP (DEG)
RED (630nm)	20 mA	25	60	20 mA	2.0	5V	10	20 mA	625	630	635	135
RED (620nm)		40	85						615	620	625	
ORANGE		63	100						602	605	608	
YELLOW		40	130						587	590	593	
YELLOW GREEN		10	25						569	572	575	
GREEN	5 mA	56	110	5 mA	3.0		100	5 mA	520	527	535	
BLUE		9	25						465	470	475	
WHITE		90	150						*(X,Y) (0.30,0.30)			

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT	COLOR								UNITS
	RED (630nm)	RED (620nm)	ORANGE	YELLOW	YELLOW GREEN	BLUE	GREEN	WHITE	
POWER DISSIPATION	50		52		54	33			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	0.125			mA/°C
REVERSE VOLTAGE	5								V
STORAGE TEMPERATURE	-40 TO +100								°C
OPERATING TEMPERATURE	-40 TO +85								°C

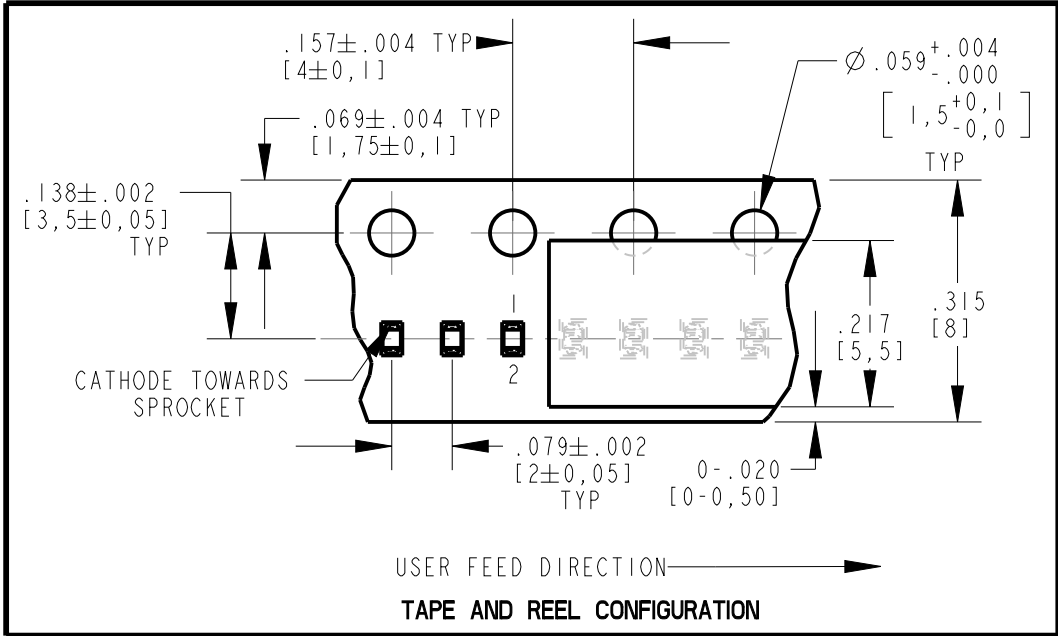


RECOMMENDED RoHS SOLDER PROFILE

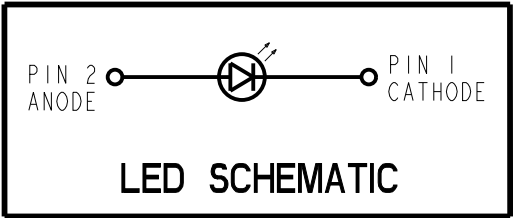
ABOVE CONDITIONS ARE FOR REFERENCE.
SUGGEST CUSTOMER EVALUATE USING OWN
CIRCUIT BOARDS AND REFLOW OVEN.



RECOMMENDED SOLDER PAD LAYOUT



USER FEED DIRECTION
TAPE AND REEL CONFIGURATION



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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Dialight:

[597-3907-502F](#) [597-3327-502F](#) [597-3407-507F](#) [597-3207-502F](#) [597-3607-507F](#) [597-3207-507F](#) [597-3507-507F](#)
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