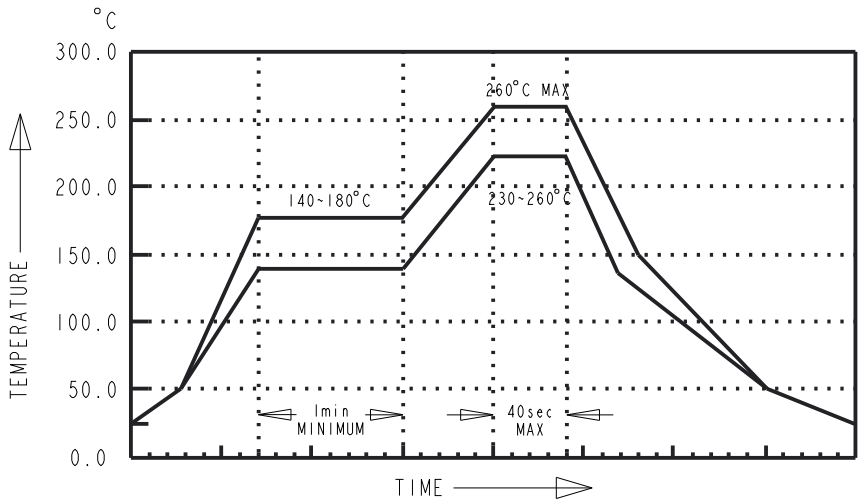


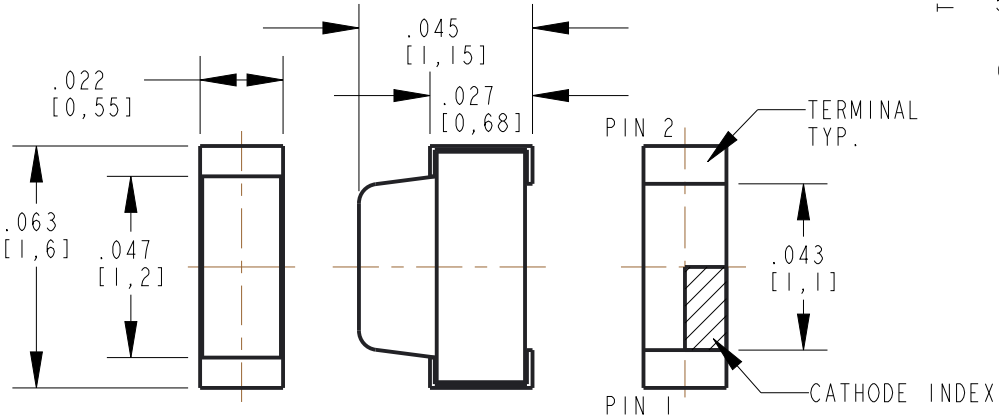
DIALIGHT PART NUMBER	PACKAGING	LED COLOR
597-2003-507F	7" REEL	AlInGaP RED (630 nm)
597-2033-507F	7" REEL	AlInGaP RED (620 nm)
597-2203-507F	7" REEL	AlInGaP ORANGE
597-2323-507F	7" REEL	InGaN GREEN
597-2403-507F	7" REEL	AlInGaP YELLOW
597-2503-507F	7" REEL	AlInGaP YELLOW GREEN
597-2603-507F	7" REEL	InGaN BLUE
597-2903-507F	7" REEL	InGaN WHITE

RoHS COMPLIANT 597-2XX3-50XF

Part Numbers with the "F" suffix ending are RoHS Compliant.
For example: 597-2003-507F
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 10 sec.



RECOMMENDED RoHS SOLDER PROFILE



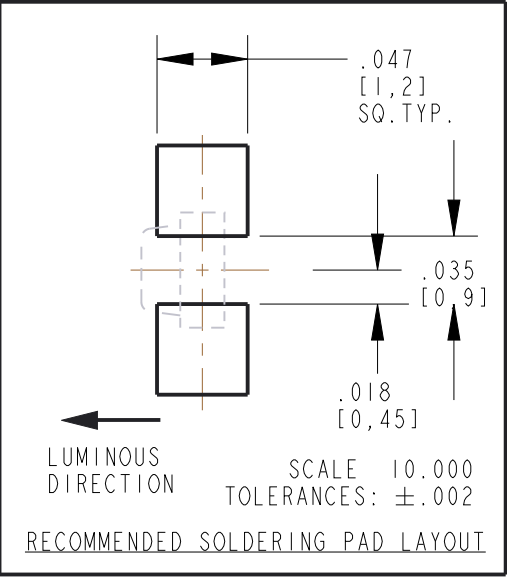
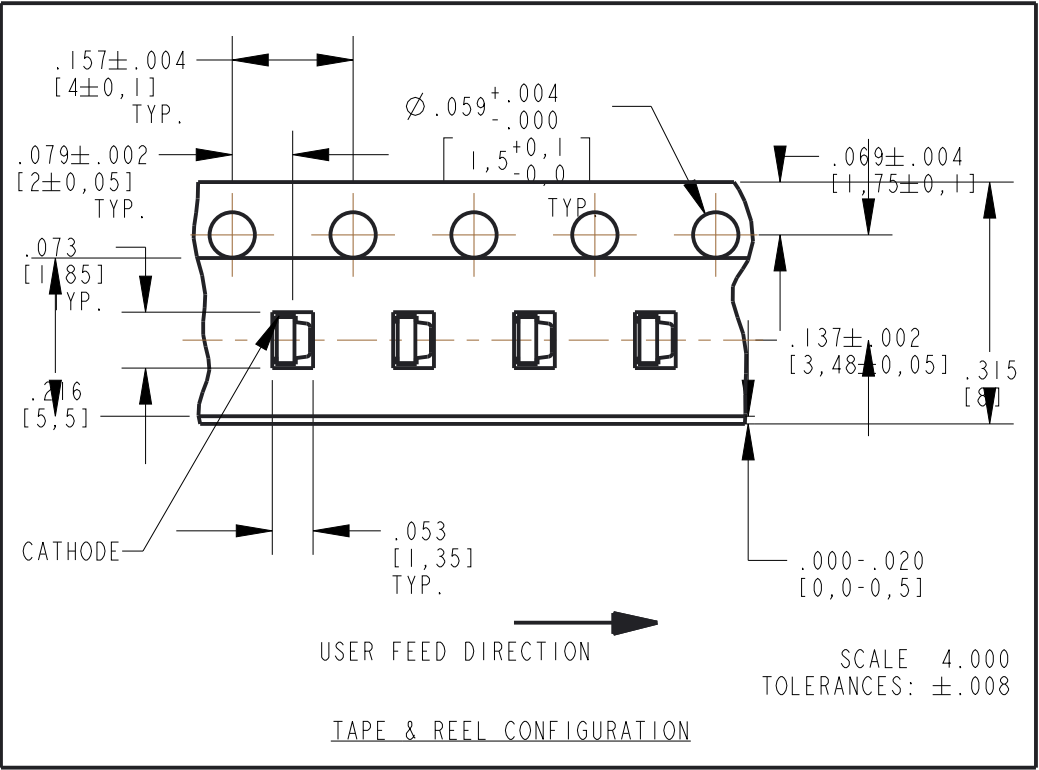
OPERATING CHARACTERISTICS AT 25°C AMBIENT

COLOR	LUMINOUS INTENSITY @I _F = 20 mA (5mA FOR InGaN GREEN and White) (mcd)			FORWARD VOLTAGE @I _F = 20 mA (5mA FOR InGaN GREEN and White) (V)		REVERSE CURRENT (μA)	DOMINANT WAVELENGTH (nm)			VIEWING ANGLE (DEG)
	MIN	TYP	MAX	TYP	MAX		MIN	TYP	MAX	
AlInGaP RED (630 nm)	16	40	100	2.2	10	625	630	635	135	
AlInGaP RED (620 nm)	25	63	160	2.2	10	615	620	625	135	
AlInGaP ORANGE	40	100	250	2.2	10	602	605	608	135	
AlInGaP YELLOW	36	63	180	2.0	10	587	590	593	135	
AlInGaP YELLOW GREEN	10	25	63	2.2	10	569	572	575	135	
InGaN BLUE	56	140	360	3.2	100	465	470	475	140	
InGaN GREEN	56	140	220	3.0	100	520	527	535	130	
InGaN WHITE	22	56	140	2.9	10	*X=0.30; Y=0.30			150	

*CHROMATICITY COORDINATES (TYP)

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT	COLOR								UNITS
	AlInGaP RED (630nm)	AlInGaP RED (620nm)	AlInGaP ORANGE	AlInGaP YELLOW	AlInGaP YELLOW GREEN	InGaN WHITE	InGaN GREEN	InGaN BLUE	
POWER DISSIPATION	54	54	54	75	54	33	70	84	mW
CONTINUOUS FORWARD CURRENT	20	20	20	30	20	10	20	20	mA
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 1.0ms PULSE WIDTH)	100	100	100	100	100	50	100	100	mA
DERATE LINEARLY FROM 40°C (60°C-AlInGaP YELLOW & InGaN BLUE, 25°C-WHITE & InGaN GREEN)	0.26	0.26	0.26	0.6	0.26	0.25	0.25	0.40	mA/°C
REVERSE VOLTAGE	5								V
STORAGE TEMPERATURE	-40 TO +100								°C
OPERATING TEMPERATURE	-40 TO +85						40 TO +100°C		°C

REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	—	NEW RELEASE	AJF	KLJ	NO	10-1-10
B	—	ADDED P/N'S 597-2323-502F 597-2323-507F	WFB	JTD	N.O.	4-16-13
C	106824	WHITE LED TEST CONDITION UPDATED, GRN AND WHITE SPECS UPDATED	LD	CS	NO	6-20-23
D	124417	DELETED -502F PART NUMBERS AND UPDATED LED SPECS	LD	CS		11-14-23



NOTES:

1. EPOXY: WATER CLEAR
2. MOISTURE SENSITIVITY LEVEL: 3.
3. TAPE & REEL PER EIA STANDARD 481-1-A; CATHODE TOWARDS SPROCKET.
4. TAPE & REEL MAY REQUIRE RE-TAPING AFTER 12 MONTHS.
5. PIN NUMBERS ARE FOR REFERENCE ONLY. DESIGNATION NON-EXISTENT ON PART.
6. DIALIGHT PART NUMBERS: 597-2XX3-50XF.
7. ...507F SUFFIX MEANS PARTS PACKAGED ON A 7" [Ø180mm] REEL, 3,000 PCS/REEL.
8. PACKAGING TO INCLUDE LABEL CONTAINING DIALIGHT PART NUMBER, DATE CODE/LOT NO., LUMINOUS INTENSITY AND COLOR BINS, QTY/REEL, AND COUNTRY OF ORIGIN.
9. THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

THIS DRAWING AND THE CONTENTS HEREIN ARE CONFIDENTIAL AND THE SOLE PROPERTY OF DIALIGHT CORP. REPRODUCTION OF THIS DRAWING OR CONSTRUCTION OF ANY PARTS WITHIN THIS DRAWING ARE FORBIDDEN WITHOUT THE WRITTEN CONSENT OF DIALIGHT CORP.		
SCALE: 20.000	DRAWING NUMBER	REV
ALL DIM's: INCH (mm)	C-17871	D
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE 0605 SIDE VIEW CHIP LED RoHS COMPLIANT	
FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.004	MATERIAL -	
ANGLES: ±1°	 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 (732) 919-3119 www.dialight.com	
FINISH -		
FSCM 83330	SHEET 1 OF 1	FAMILY TABLE: