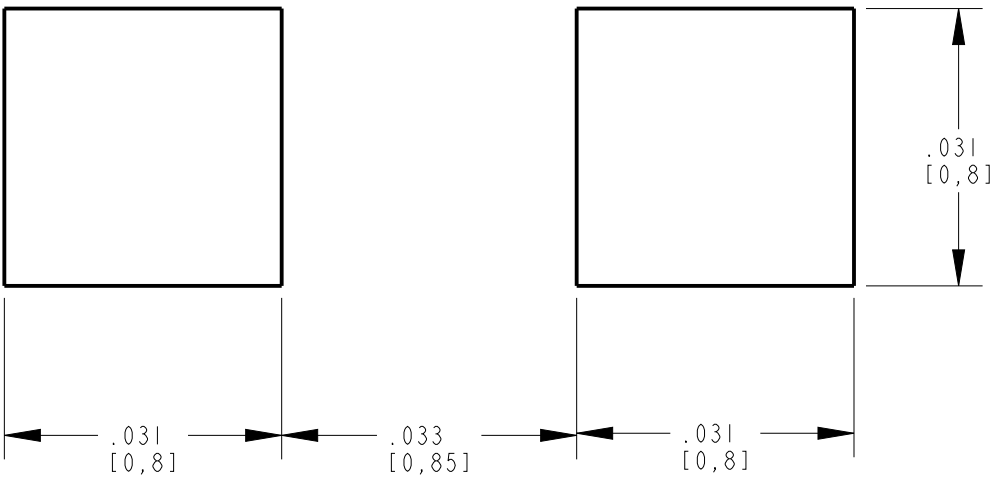
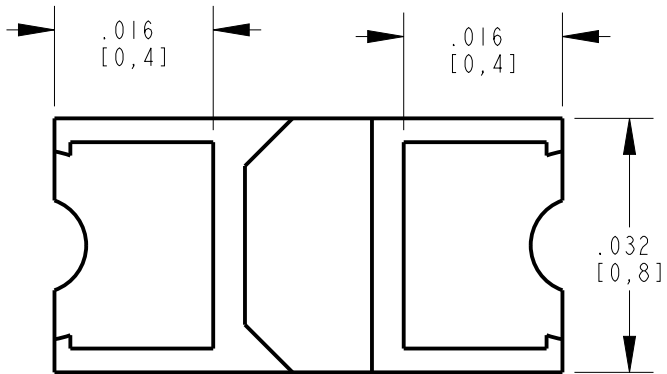
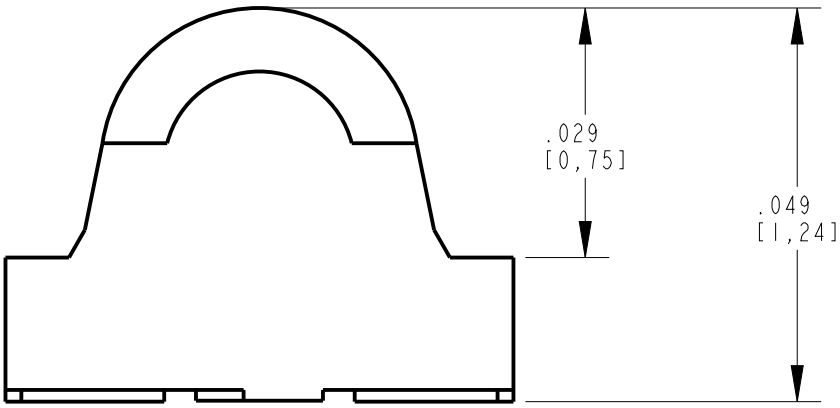
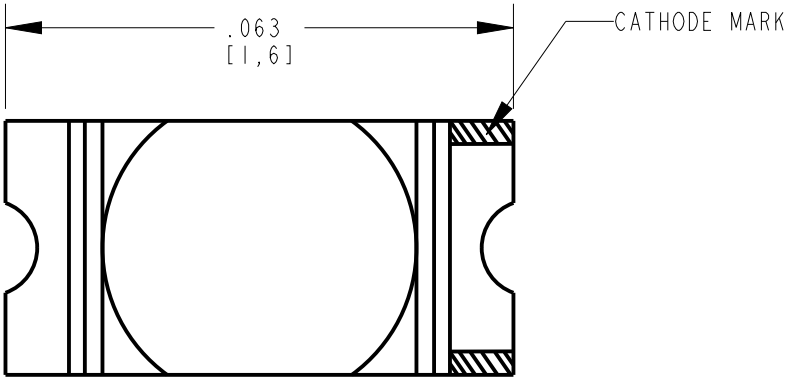
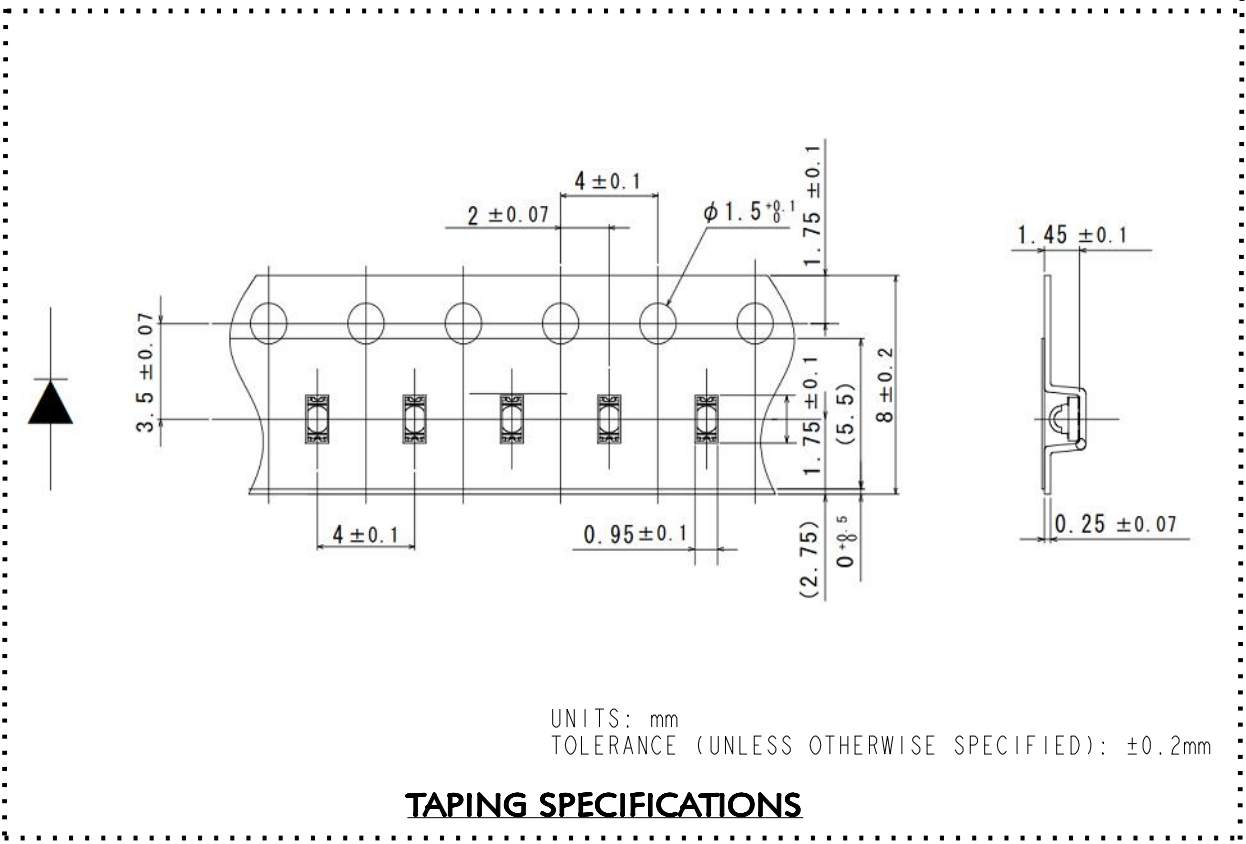


PART NUMBER	LED COLOR
597-3006-502F, 507F	RED (630nm)
597-3036-502F, 507F	RED (620nm)
597-3206-502F, 507F	ORANGE
597-3408-502F, 507F	YELLOW (590nm)
597-3409-502F, 507F	YELLOW (587nm)
597-3506-502F, 507F	YELLOW-GREEN
597-3316-502F, 507F	GREEN (560nm)



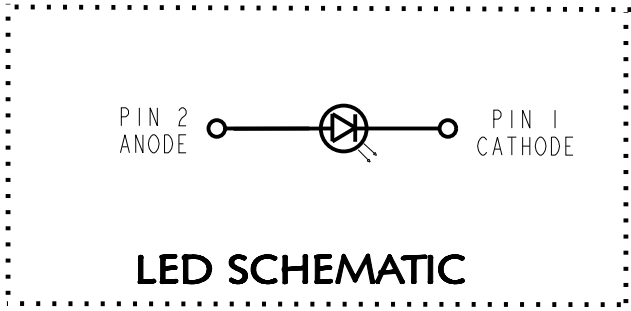
RECOMMENDED SOLDER PAD LAYOUT



TAPING SPECIFICATIONS

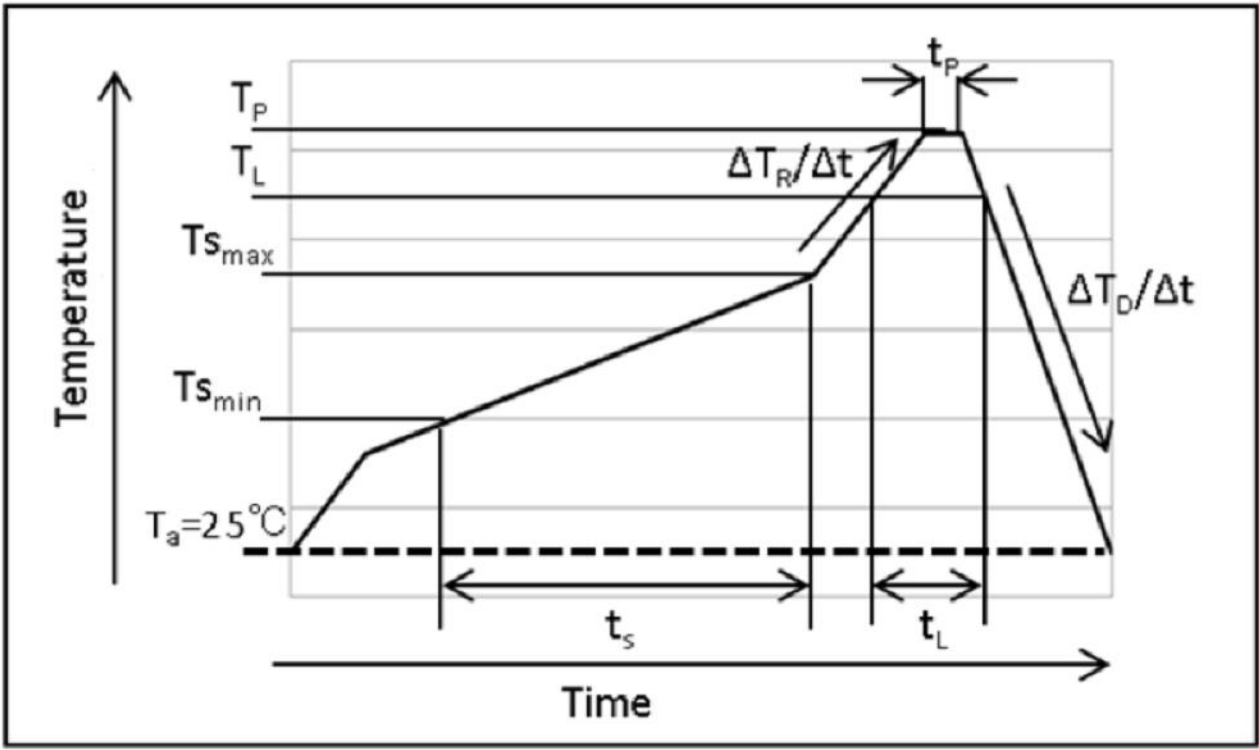
ABSOLUTE MAXIMUM RATINGS AT 25°C						
LED COLOR	POWER DISSIPATON (mW)	FORWARD CURRENT (mA)	PEAK FORWARD CURRENT (mA)	REVERSE VOLTAGE (V)	OPERATING TEMPRATURE (°C)	STORAGE TEMPRATURE (°C)
RED (630nm)	50	20	100	12	-40 TO +100	-40 TO +100
RED (620nm)						
ORANGE						
YELLOW (590nm)						
YELLOW (587nm)						
YELLOW-GREEN						
GREEN						

OPERATING CHARACTERISTICS AT 25°C								
LED COLOR		LUMINOUS INTENSITY (mcd)			DOMINANT WAVELENGTH (nm)			VIEWING ANGLE (degrees)
	IF (mA)	MIN.	TYP.	MAX	MIN	TYP.	MAX	
RED (630nm)	20	—	174	—	630	—	10 @ VR=12V	2 @ IF=20mA
RED (620nm)		—	185	—	620	—		
ORANGE		—	405	—	605	—		
YELLOW (590nm)		—	320	—	590	—		
YELLOW (587nm)		—	290	—	587	—		
YLW GREEN		—	140	—	571	—		
GREEN		—	34	—	560	—		



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

REV	REVISIONS	DRN	APP	DATE
A	NEW RELEASE	BP	NO	4-2-18
B	ADDED 60° VIEW ANGLE ON THE TITLE BOX	LD	NO	9-27-18
C	ADDED VIEWING ANGLE	LD	NO	7-24-19



MARK	MEANING	CONDITIONS
$T_{s_{max}}$	MAXIMUM OF PRE-HEATING TEMP.	180 °C
$T_{s_{min}}$	MINIMUM OF PRE-HEATING TEMP.	140 °C
t_s	TIME FROM $T_{s_{min}}$ TO $T_{s_{max}}$	OVER 60 sec.
T_L	REFERENCE TEMP	230-260 °C
t_L	RETENTION TIME FOR T_L	WITHIN 40 sec.
T_P	PEAK TEMP	260 °C (MAX)
t_P	TIME FOR PEAK TEMP	WITHIN 10 sec.
$\Delta T_R/\Delta t$	TEMP. RISING RATE	UNDER 3°C/sec.
$\Delta T_D/\Delta t$	TEMP. DECREASING RATE	OVER -3°C/sec.

RECOMMENDED RoHS SOLDER PROFILE

NOTES:

- DIALIGHT P/N: 597-3XXX-50XF
SUFFIX -502F FOR 20 PCS ON A SAMPLE TAPE STRIP
SUFFIX -507F FOR 7" DIAMETER REEL, PACKAGED 2000 PCS PER REEL.
- LABELING FOR REEL AND OUTSIDE OF ALUMINUM FOIL BAG:
DIALIGHT P/N, QUANTITY PER REEL, DATE CODE, INTENSITY BIN CODE, LOT NUMBER AND COUNTRY OF ORIGIN.
- TAPE AND REEL LEDS MAY REQUIRE RE-TAPING AFTER TWELVE MONTHS.
- ESD WITHSTAND VOLTAGE UP TO 6KV MAX ACC. TO JS-001-2014
- MSL 3

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.		
DIALIGHT CORP. INTERNAL REFERENCE ONLY = 3D MODEL : 5975006507F-0		
SCALE: 25.000	DRAWING NUMBER	REV
ALL DIM'S IN: INCHES (MM)	C-18371	C
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE	
FRACTIONS: ±1/64	SM LED 0603 PACKAGE, 60° VIEW ANGLE	
DECIMALS (.XX): ±.01	MATERIAL	
DECIMALS (.XXX): ±.005		
DECIMALS (.XXXX): ±.0005		
ANGLES: ±1°		
FINISH		
FSCM 83330		
SHEET 1 OF 1	FAMILY TABLE:	