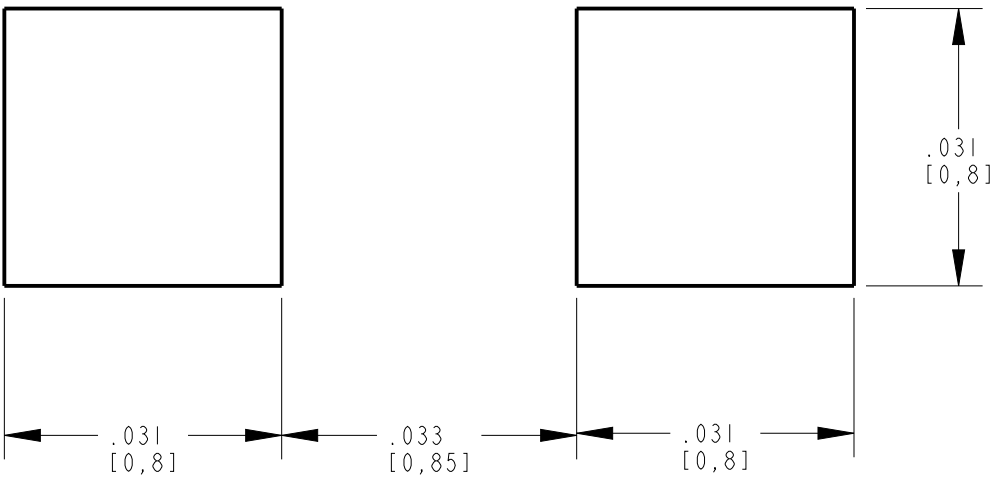
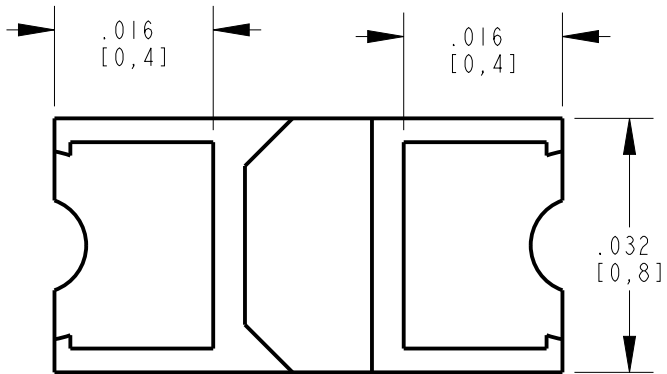
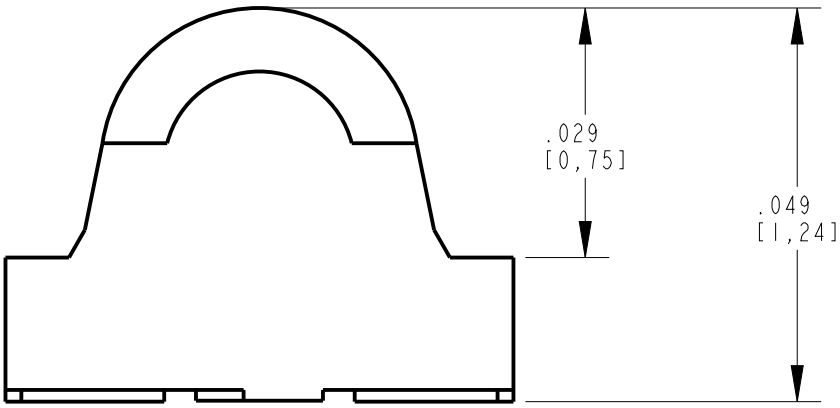
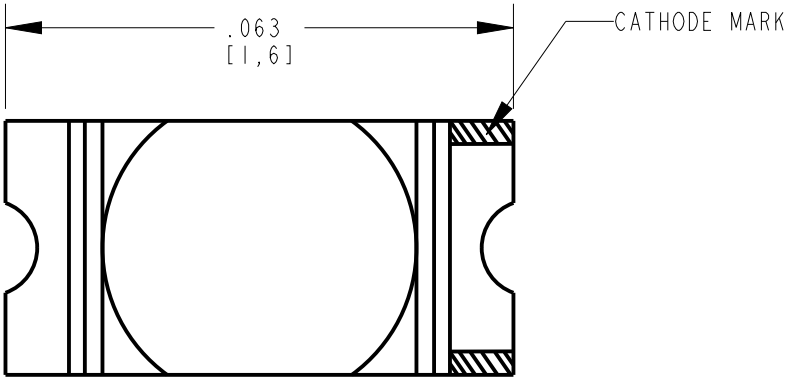
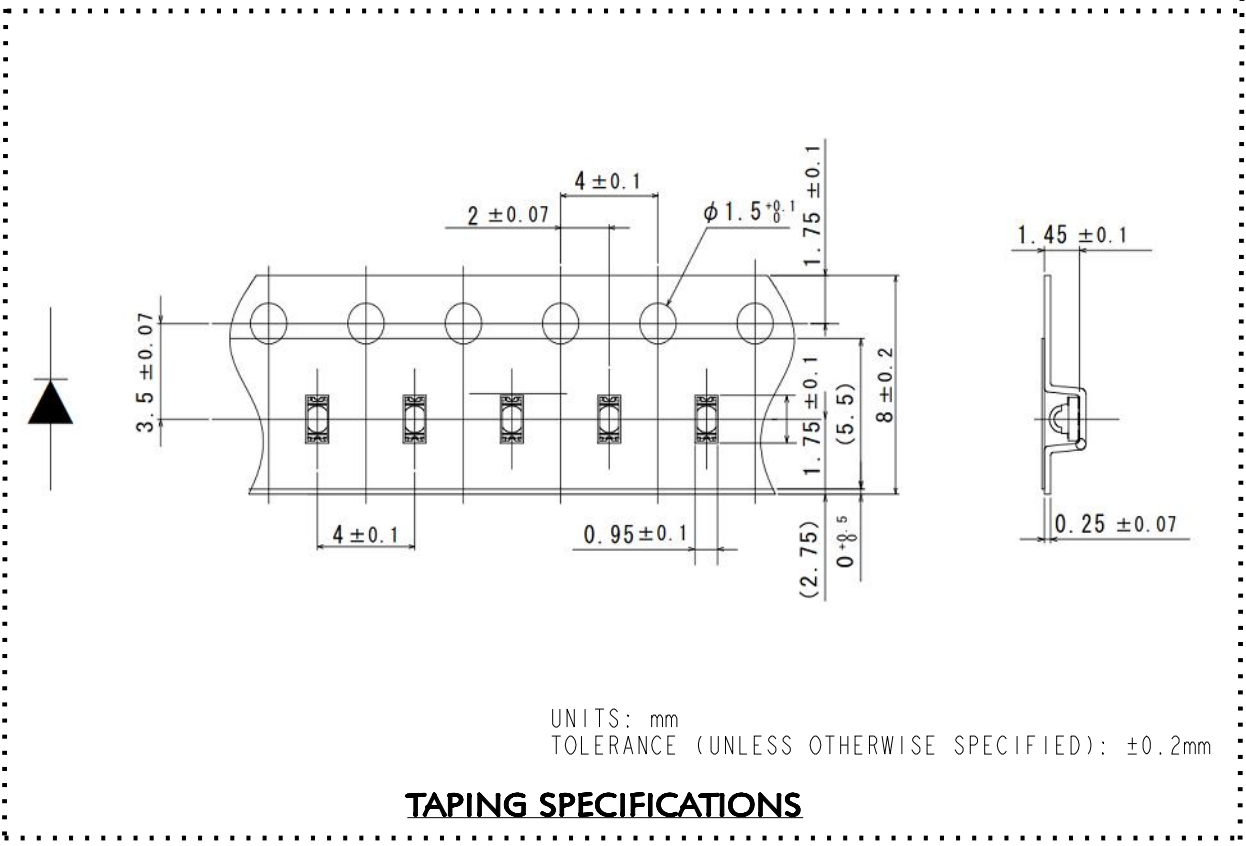


PART NUMBER	LED COLOR
597-3006-502F, 507F	RED (630nm)
597-3036-502F, 507F	RED (620nm)
597-3206-502F, 507F	ORANGE
597-3408-502F, 507F	YELLOW (590nm)
597-3409-502F, 507F	YELLOW (587nm)
597-3506-502F, 507F	YELLOW-GREEN
597-3316-502F, 507F	GREEN (560nm)



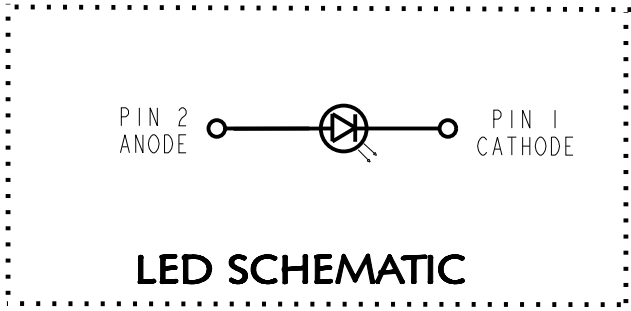
RECOMMENDED SOLDER PAD LAYOUT



TAPING SPECIFICATIONS

ABSOLUTE MAXIMUM RATINGS AT 25°C						
LED COLOR	POWER DISSIPATION (mW)	FORWARD CURRENT (mA)	PEAK FORWARD CURRENT (mA)	REVERSE VOLTAGE (V)	OPERATING TEMPERATURE (°C)	STORAGE TEMPERATURE (°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	—		



LED SCHEMATIC

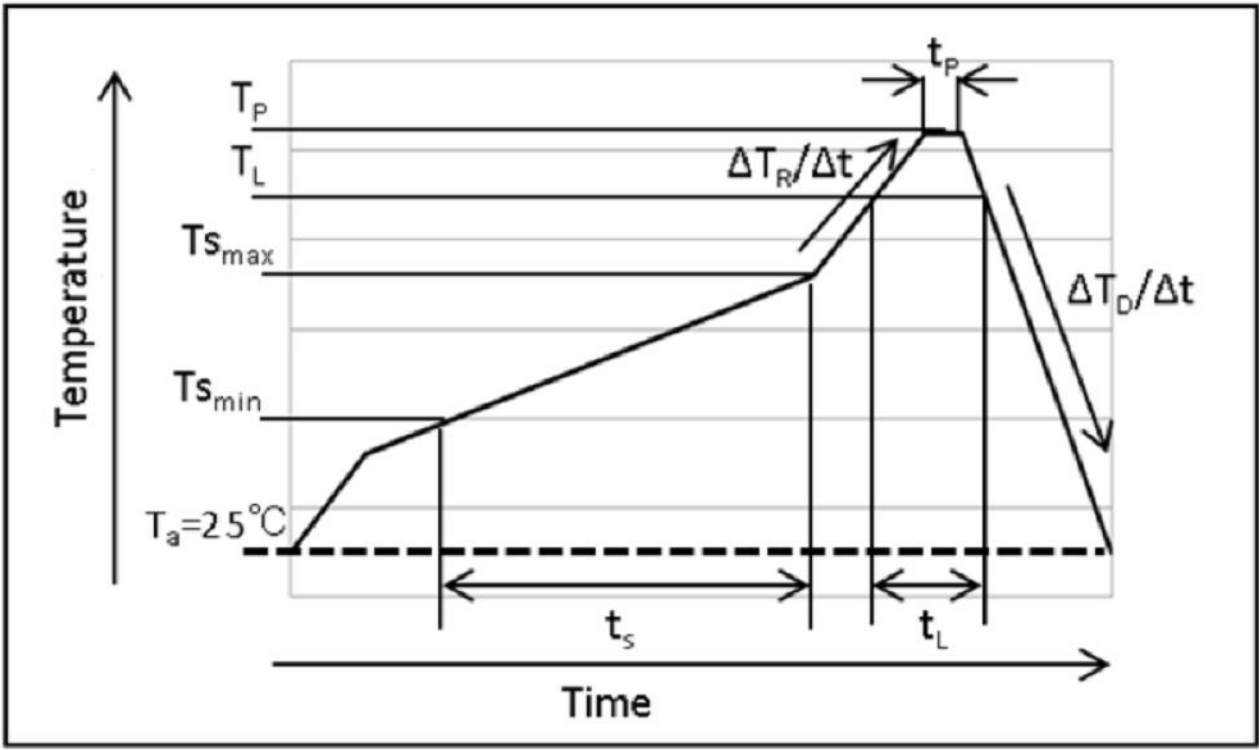
NOTES:

- 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



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

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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: $\pm 1/64$	SM LED 0603 PACKAGE, 60° VIEW ANGLE	
DECIMALS (.XX): $\pm .01$	MATERIAL	
DECIMALS (.XXX): $\pm .005$		
DECIMALS (.XXXX): $\pm .0005$		
ANGLES: $\pm 1^\circ$		
FINISH		
FSCM 83330		
SHEET 1 OF 1	FAMILY TABLE:	



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