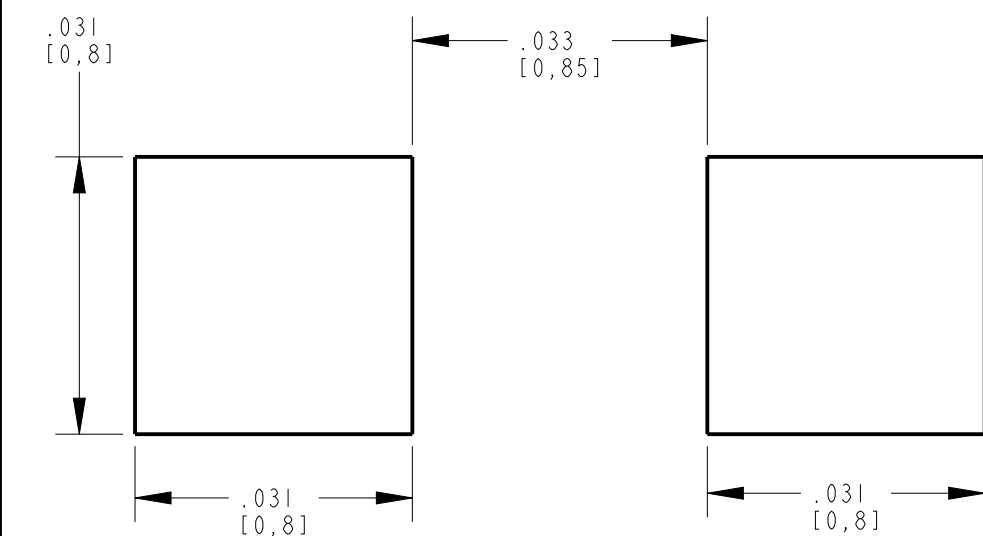
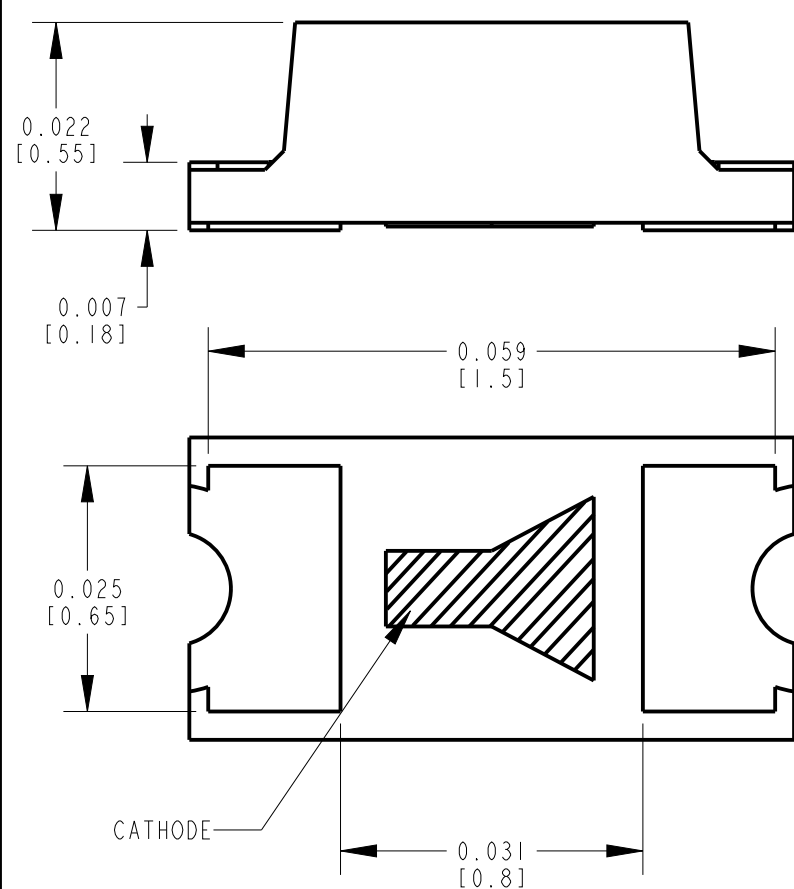
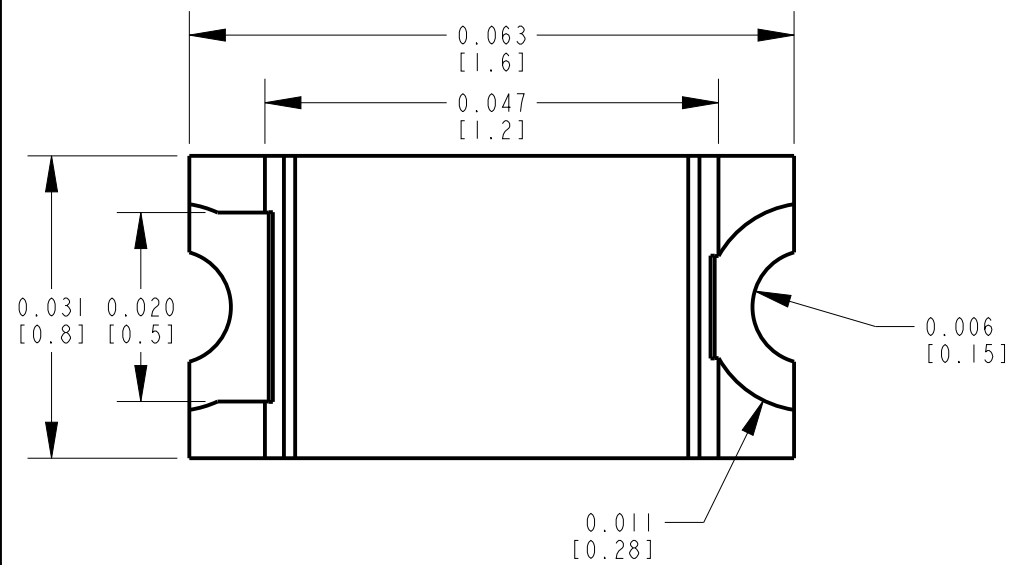
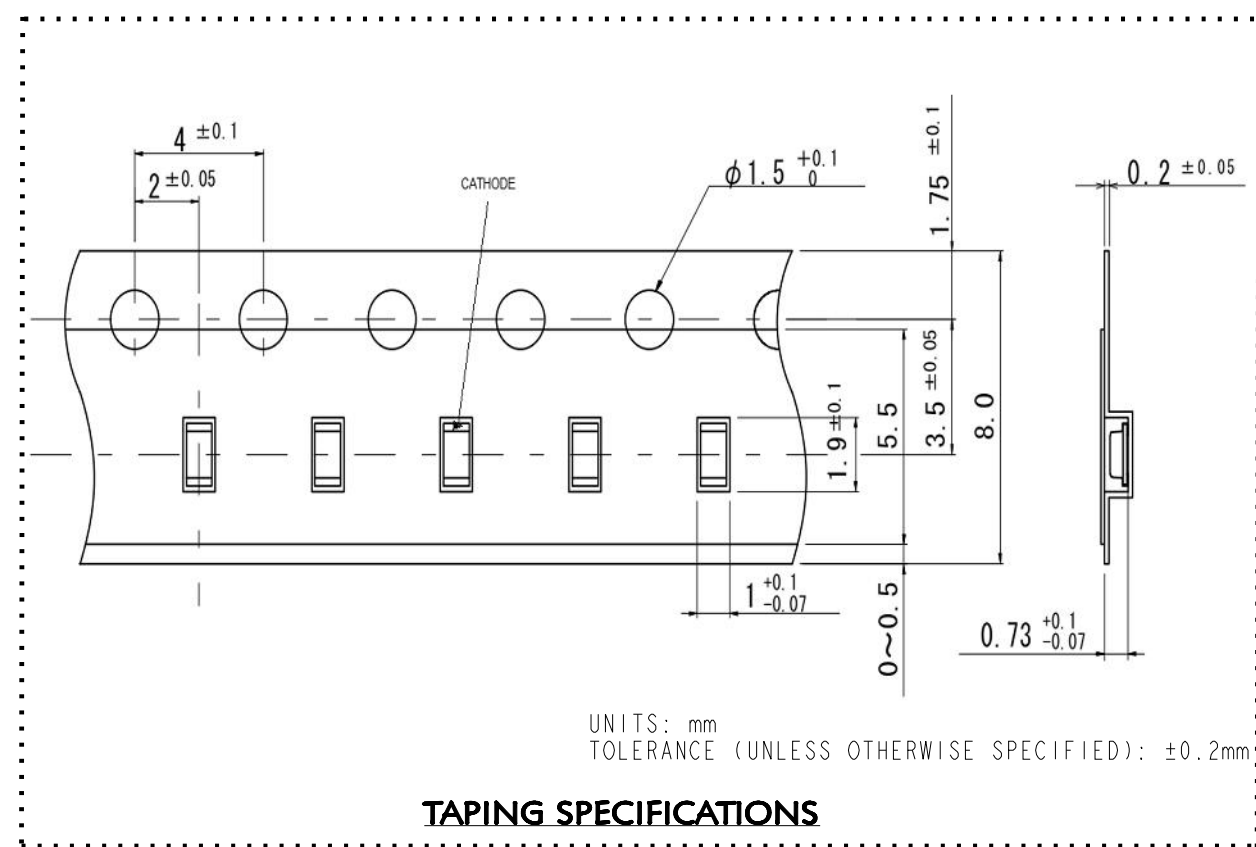


PART NUMBER	LED COLOR
597-3005-502F,507F	RED (630nm)
597-3035-502F,507F	RED (620nm)
597-3045-502F,507F	RED-ORANGE
597-3205-502F,507F	ORANGE
597-3405-502F,507F	YELLOW
597-3505-502F,507F	YELLOW-GRN



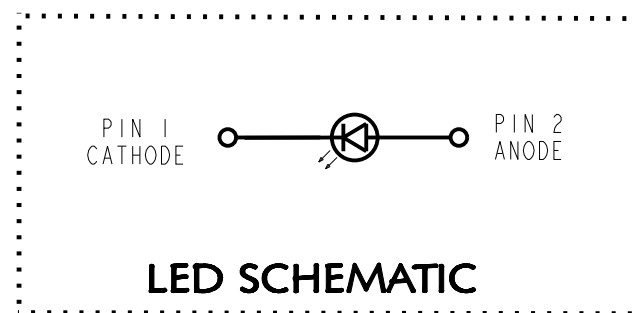
RECOMMENDED SOLDER PAD LAYOUT



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)	84	35	100	5	-40 TO +100	-40 TO +100
RED (620nm)						
RED-ORANGE						
ORANGE	87	35	100	5	-40 TO +100	-40 TO +100
YELLOW						
YELLOW-GREEN						

OPERATING CHARACTERISTICS AT 25°C							
LED COLOR	IF (mA)	LUMINOUS INTENSITY (mcd)		DOMINANT WAVELENGTH (nm)			FORWARD VOLTAGE
		MIN	TYP	MIN	TYP.	MAX	
RED (630nm)	20	71	90	627	630	633	2 @ IF=20mA
RED (620nm)		90	112	617	620	623	
RED-ORANGE		112	140	612	615	618	
ORANGE				603	605	607	
YELLOW		180	224	588	590	592	2.1 @ IF=20mA
YELLOW-GREEN		56	71	569	571	573	



LED SCHEMATIC

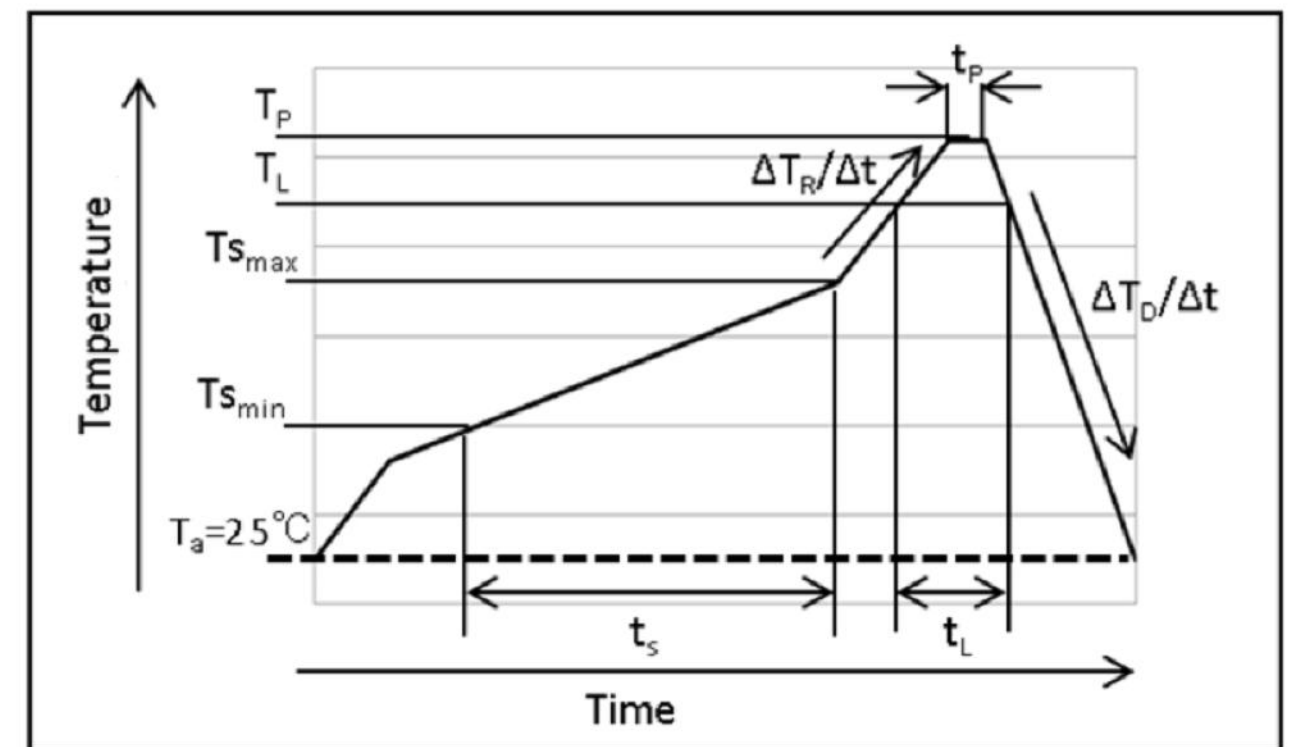
NOTES:

- DIALIGHT P/N: 597-3XX5-50XF
SUFFIX -502F FOR 20 PCS ON A SAMPLE TAPE STRIP
SUFFIX -507F FOR 7" DIAMETER REEL, PACKAGED 3000 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 4000V MAX ACC. TO JS-001-2014
- MSL LEVEL 3



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	—	NEW RELEASE	BP	—	NO	3-22-18



Mark	Meanings	Conditions
TSmax	Maximum of pre-heating temperature	180°C
TSmin	Minimum of pre-heating temperature	140°C
ts	Time from Tsmin to Tsmax	Over 60sec.
TL	Reference temperature	230~250°C
tl	Retention time for TL	Within 40sec.
TP	Peak temperature	250°C(Max)
tp	Time for peak temperature	Within 10sec.
ΔTR/Δt	Temperature rising rate	Under 3°C/sec.
ΔTD/Δt	Temperature 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-18369	A
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE	SM LED 0603 PACKAGE
FRACTIONS: ±1/64	TITLE	SINGLE INTENSITY BIN
DECIMALS (.XX): ±.01	MATERIAL	
DECIMALS (.XXX): ±.005		
DECIMALS (.XXXX): ±.0005		
ANGLES: ±1°		
FINISH	Dialight	
FSCM 83330	1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 (732) 919-3119 www.dialight.com	
SHEET 1 OF 1	FAMILY TABLE:	

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