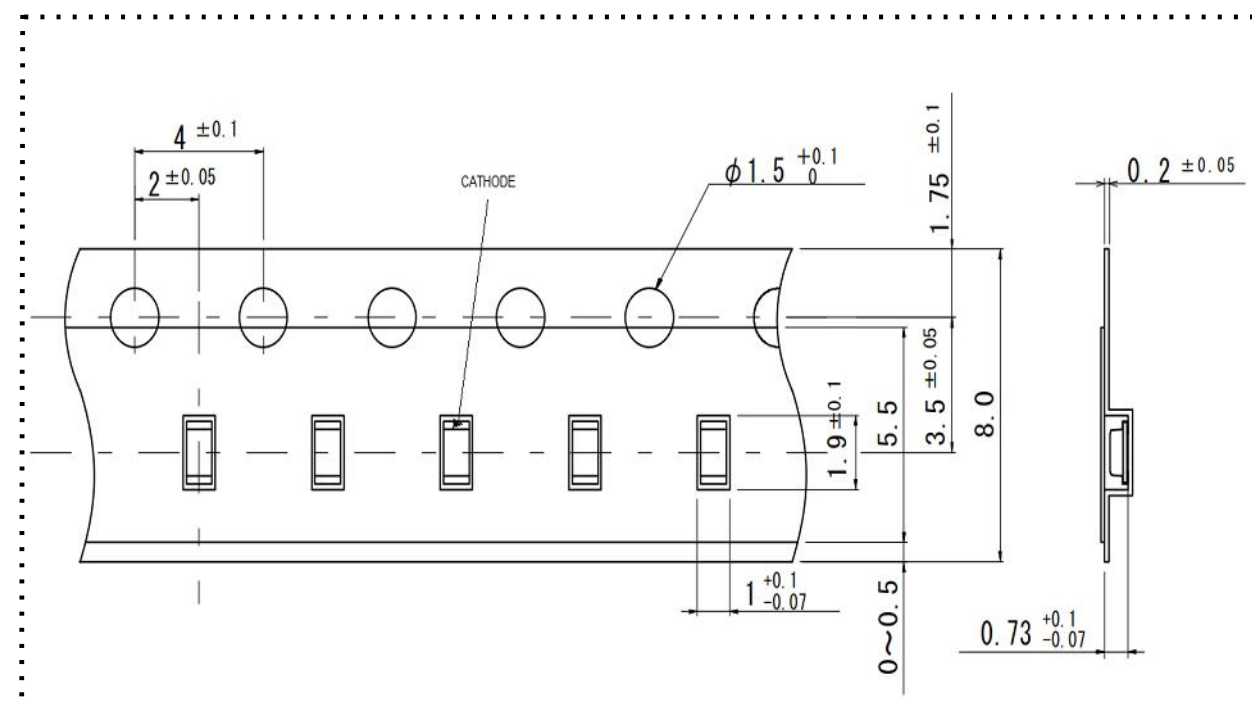
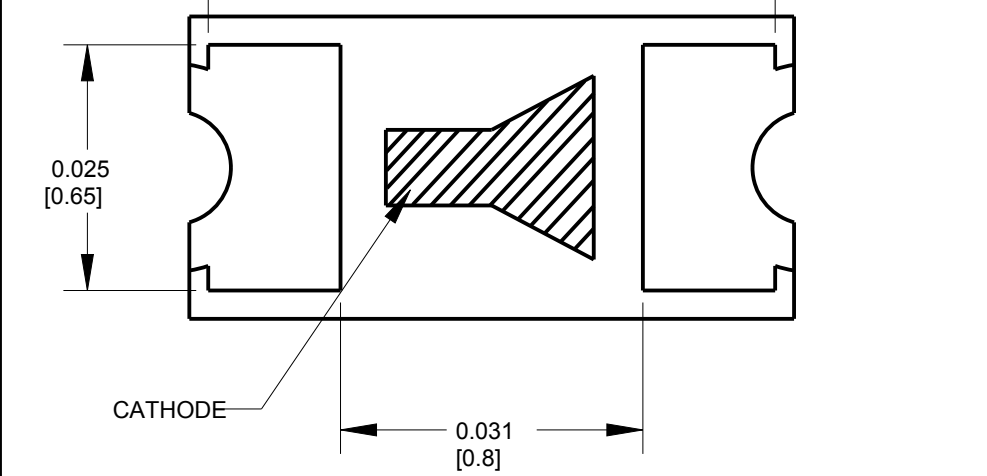
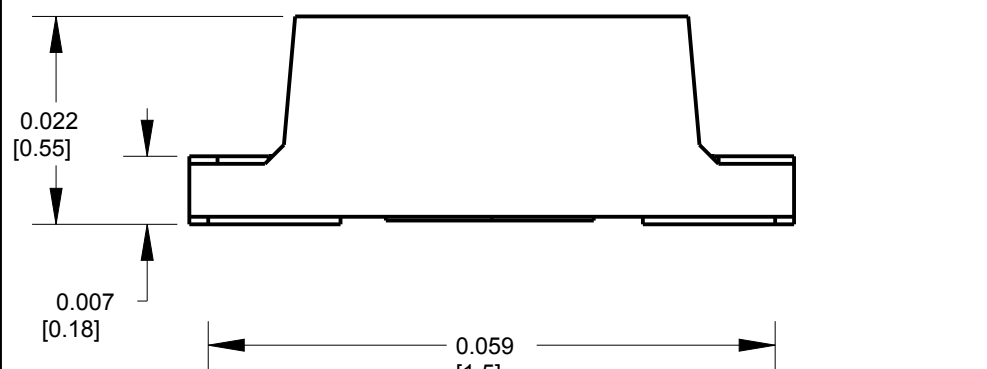
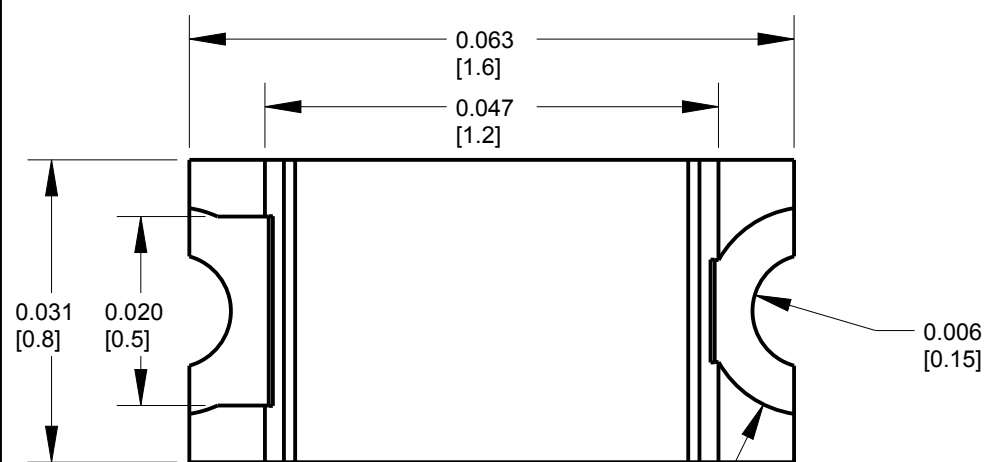


PART NUMBER	LED COLOR
597-3005-502F,507F	RED (630nm)
597-3035-502F,507F	RED (620nm)
597-3045-502F,507F	RED-ORANGE
597-3205-502F,507F	ORANGE
597-3405-502F,507F	YELLOW
597-3505-502F,507F	YELLOW-GRN

REV	REVISIONS	DRN	CKD	APP	DATE
A	NEW RELEASE	BP	—	NO	3-22-18
B	ADDED VIEWING ANGLE	LD	—	NO	6-10-19

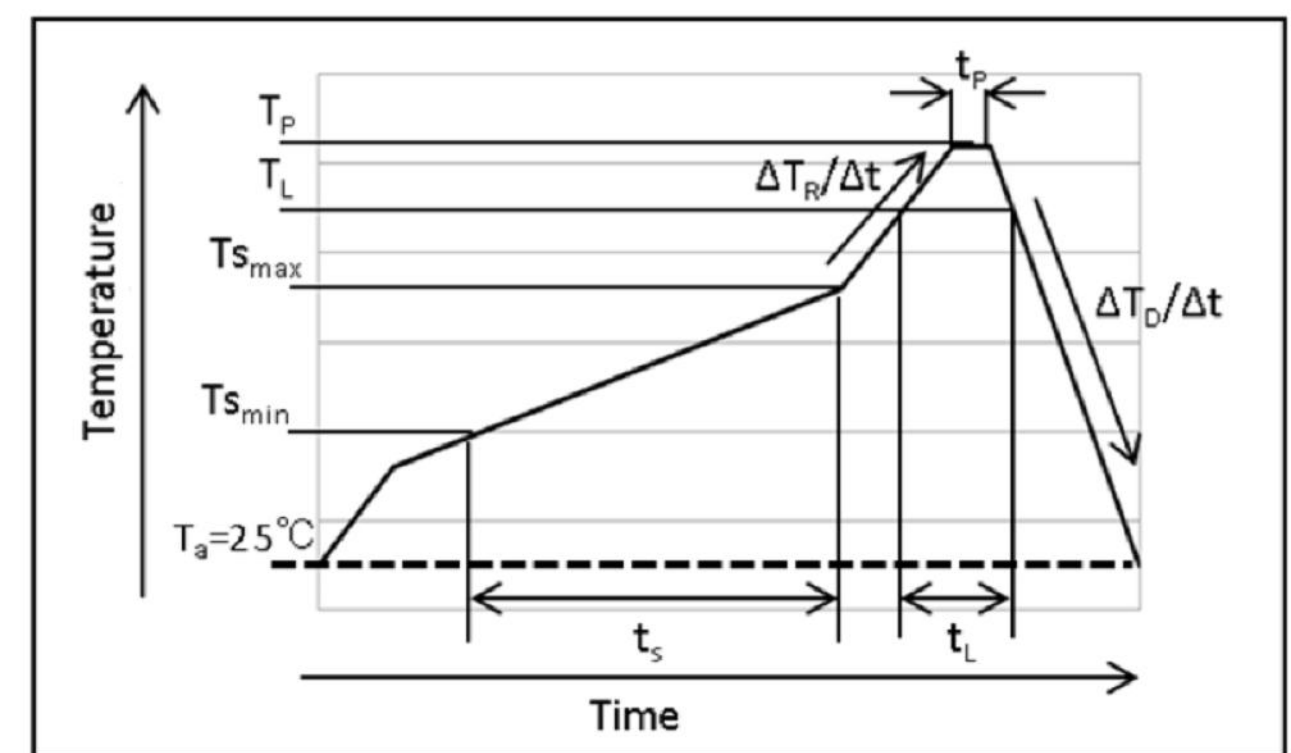


UNITS: mm
TOLERANCE (UNLESS OTHERWISE SPECIFIED): ±0.2mm

TAPING SPECIFICATIONS

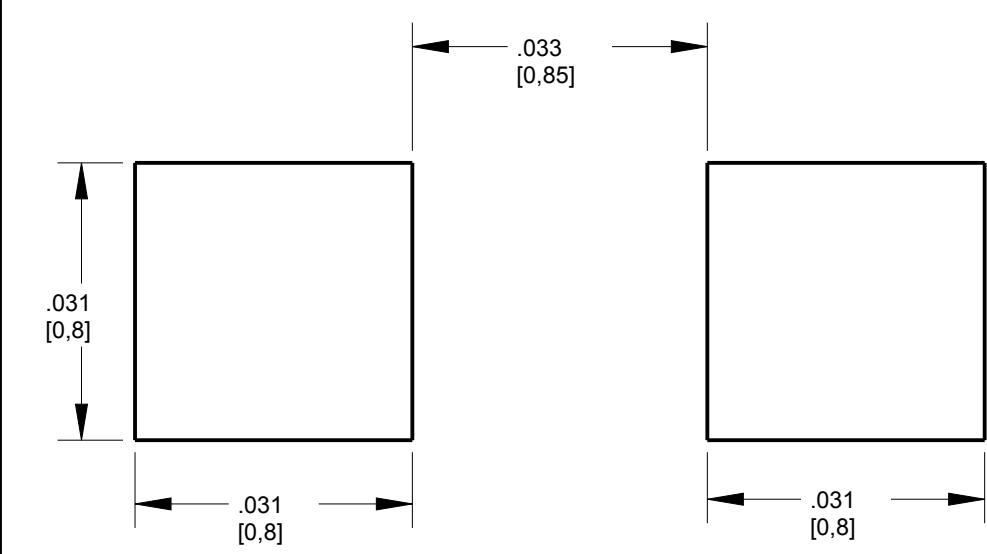
ABSOLUTE MAXIMUM RATINGS AT 25°C						
LED COLOR	POWER DISSIPATION (mW)	FORWARD CURRENT (mA)	PEAK FORWARD CURRENT (mA)	REVERSE VOLTAGE (V)	OPERATING TEMPERATURE (°C)	STORAGE TEMPERATURE (°C)
RED (630nm)	84	35	100	5	-40 TO +100	-40 TO +100
RED (620nm)						
RED-ORANGE						
ORANGE	87	35	100	5	-40 TO +100	-40 TO +100
YELLOW						
YELLOW-GREEN						

OPERATING CHARACTERISTICS AT 25°C										
LED COLOR	IF (mA)	LUMINOUS INTENSITY (mcd)			DOMINANT WAVELENGTH (nm)			REVERSE CURRENT (MAX)	FORWARD VOLTAGE (TYP.)	VIEWING ANGLE (degree)
		MIN	TYP	MAX	MIN	TYP.	MAX			
RED (630nm)	20	71	90	627	630	633	10 @ VR=5V	2 @ IF=20mA	160	
RED (620nm)		90	112	617	620	623				
RED-ORANGE		112	140	612	615	618				
ORANGE				603	605	607				
YELLOW		180	224	588	590	592				
YELLOW-GREEN	56	71	569	571	573		2.1 @ IF=20mA			

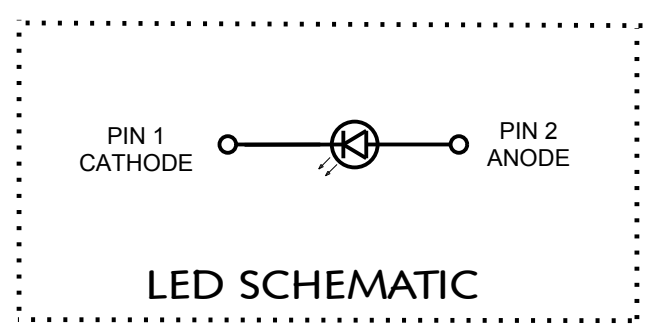


Mark	Meanings	Conditions
$T_{S_{max}}$	Maximum of pre-heating temperature	180°C
$T_{S_{min}}$	Minimum of pre-heating temperature	140°C
t_s	Time from $T_{S_{min}}$ to $T_{S_{max}}$	Over 60sec.
T_L	Reference temperature	230~250°C
t_L	Retention time for T_L	Within 40sec.
T_P	Peak temperature	250°C(Max)
t_p	Time for peak temperature	Within 10sec.
$\Delta T_R/\Delta t$	Temperature rising rate	Under 3°C/sec.
$\Delta T_D/\Delta t$	Temperature decreasing rate	Over -3°C/sec.

RECOMMENDED ROHS SOLDER PROFILE



RECOMMENDED SOLDER PAD LAYOUT



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

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SCALE: 25.000 DRAWING NUMBER: C-18369 REV: B

TOLERANCES: UNLESS OTHERWISE SPECIFIED
FRACTIONS: ±1/64
DECIMALS (.XX): ±.01
DECIMALS (.XXX): ±.005
DECIMALS (.XXXX): ±.0005
ANGLES: ±1°

FINISH: FSCM 83330

TITLE: SM LED 0603 PACKAGE SINGLE INTENSITY BIN

MATERIAL:

Dialight
1501 ROUTE 34 SOUTH
FARMINGDALE, NJ 07727
(732) 919-3119
www.dialight.com

SHEET 1 OF 1 FAMILY TABLE: