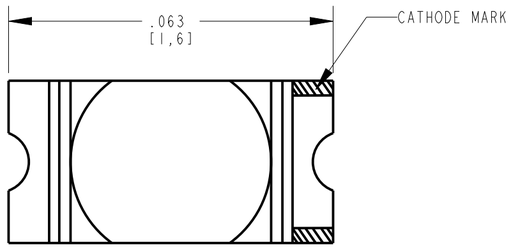
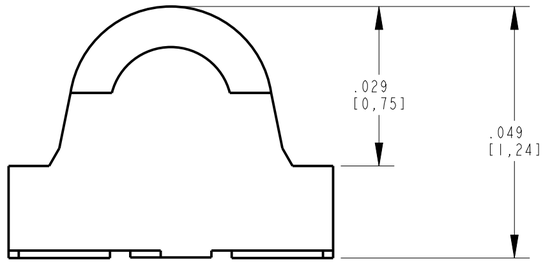
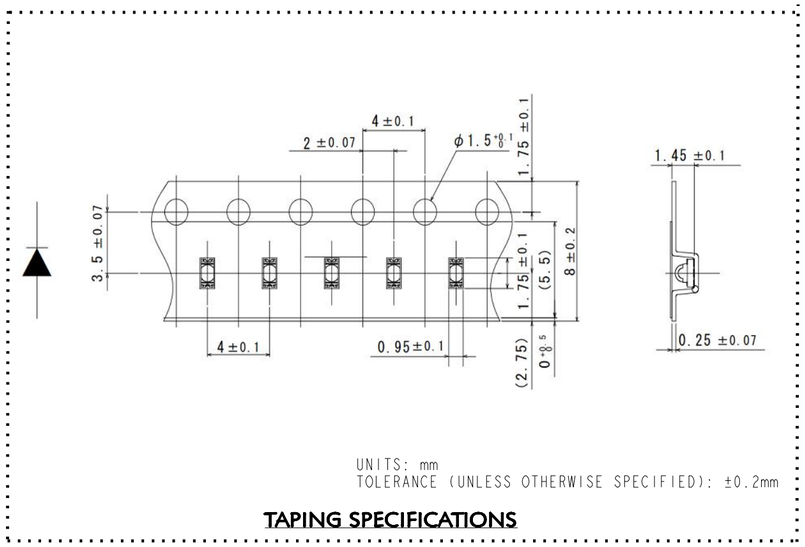
PART NUMBER	LED COLOR
597-3006-502F, 507F	RED (630nm)
597-3036-502F, 507F	RED (620nm)
597-3206-502F, 507F	ORANGE
597-3408-502F, 507F	YELLOW (590nm)
597-3409-502F, 507F	YELLOW (587nm)
597-3506-502F, 507F	YELLOW-GREEN
597-3316-502F, 507F	GREEN (560nm)

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

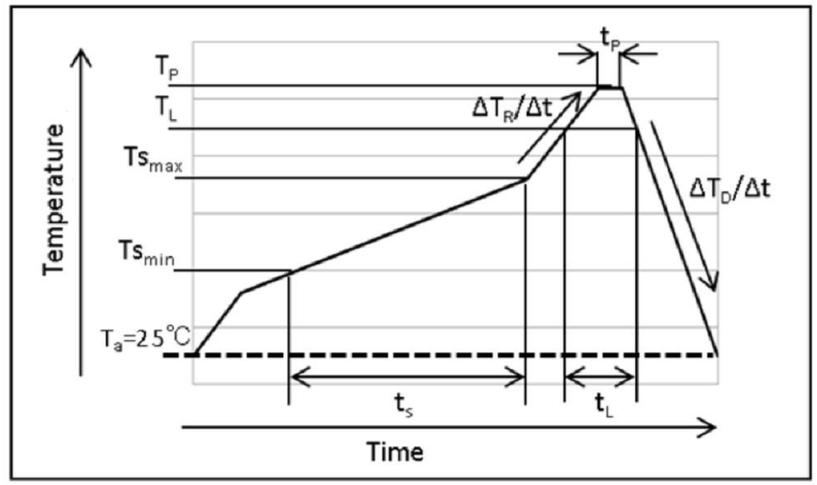






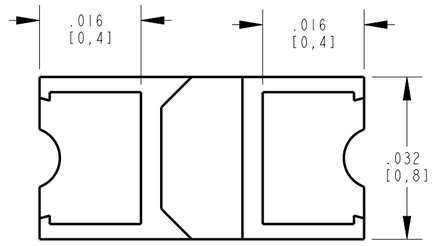
TAPING SPECIFICATIONS

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)						
YLLLOW (587nm)						
YELLOW-GREEN						
GREEN						

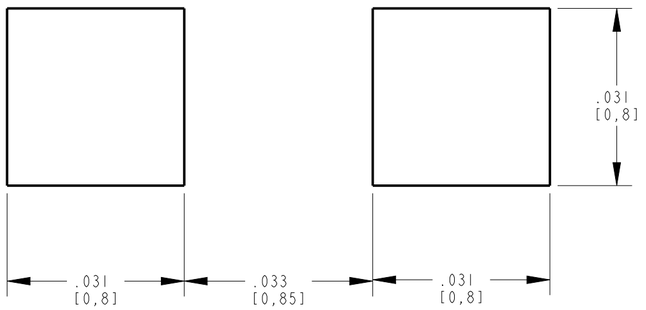


MARK	MEANING	CONDITIONS
Ts_{max}	MAXIMUM OF PRE-HEATING TEMP.	180 °C
Ts_{min}	MINIMUM OF PRE-HEATING TEMP.	140 °C
t_s	TIME FROM Tsmin TO Tsmax	OVER 60 sec.
T_L	REFERENCE TEMP	230-260 °C
t_L	RETENTION TIME FOR TL	WITHIN 40 sec.
T_P	PEAK TEMP	260 °C (MAX)
t_P	TIME FOR PEAK TEMP	WITHIN 10 sec.
$\Delta T_R/\Delta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

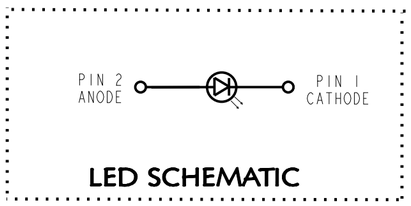
RECOMMENDED RoHS SOLDER PROFILE



OPERATING CHARACTERISTICS AT 25°C									
LED COLOR		LUMINOUS INTENSITY (mcd)		DOMINANT WAVELENGTH (nm)			REVERSE CURRENT	FORWARD VOLTAGE	VIEWING ANGLE (degrees)
	IF (mA)	MIN.	TYP.	MIN	TYP.	MAX	MAX	TYP.	TYP
RED (630nm)	20	—	174	—	630	—	10 @ VR=12V	2 @ IF=20mA	60
RED (620nm)		—	185	—	620	—			
ORANGE		—	405	—	605	—			
YELLOW (590nm)		—	320	—	590	—			
YELLOW (587nm)		—	290	—	587	—			
YLW GREEN		—	140	—	571	—			
GREEN		—	34	—	560	—			



RECOMMENDED SOLDER PAD LAYOUT



LED SCHEMATIC



ATTENTION:
OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

NOTES:

1. 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.
2. 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.
3. TAPE AND REEL LEDS MAY REQUIRE RE-TAPING AFTER TWELVE MONTHS.
4. ESD WITHSTAND VOLTAGE UP TO 6KV MAX ACC. TO JS-001-2014
5. MSL 3

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DIALIGHT CORP INTERNAL REFERENCE ONLY : 3D MODEL : 597500650?F-.0

SCALE: 25.000

ALL DIM'S IN: INCHES (MM)

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

FINISH

FSCM 83330

DRAWING NUMBER: C-18371

REV: C

TITLE: SM LED 0603 PACKAGE, 60° VIEW ANGLE

MATERIAL

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

SHEET 1 OF 1

FAMILY TABLE: