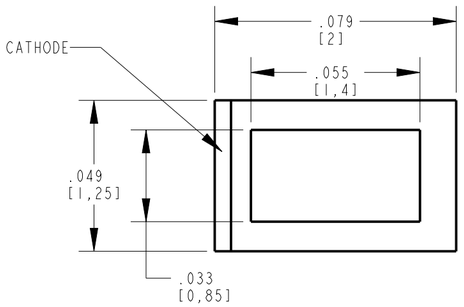
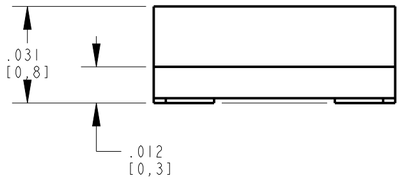
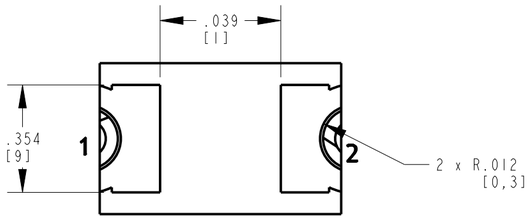
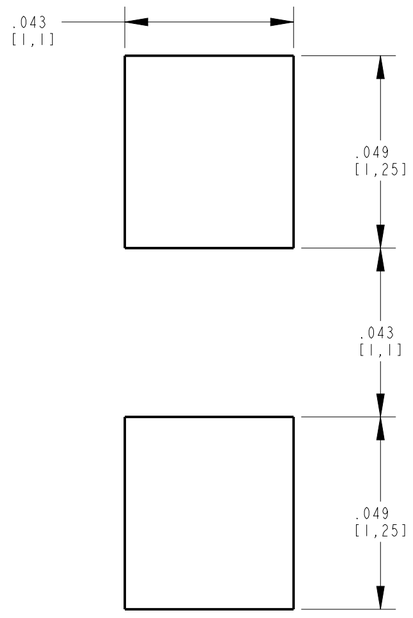
PART NUMBER	LED COLOR
597-5006-502F,507F	RED (630nm)
597-5036-502F,507F	RED (620nm)
597-5206-502F,507F	ORANGE
597-5406-502F,507F	YELLOW
597-5506-502F,507F	YELLOW GREEN
597-5316-502F,507F	GREEN (560nm)
597-5606-502F,507F	BLUE
597-5326-502F,507F	GREEN (527nm)
597-5906-502F,507F	WHITE

REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	——	NEW RELEASE	BP	——	NO	03-22-18

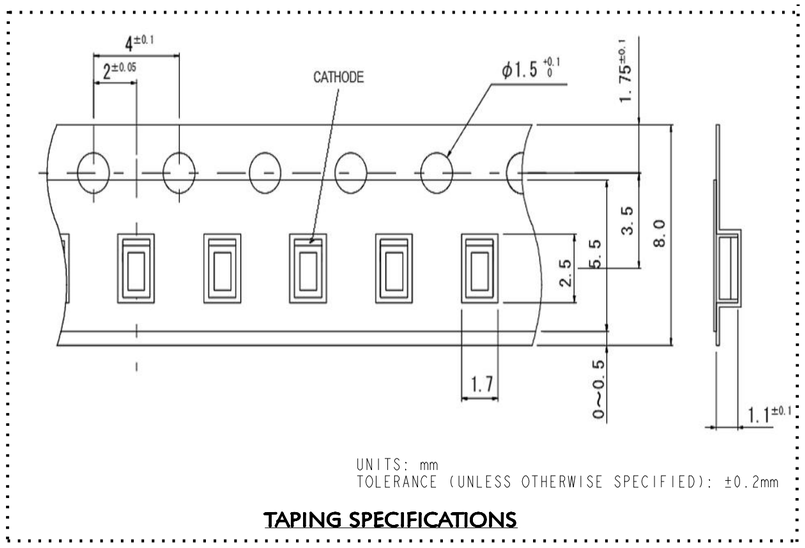








RECOMMENDED SOLDER PAD LAYOUT



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

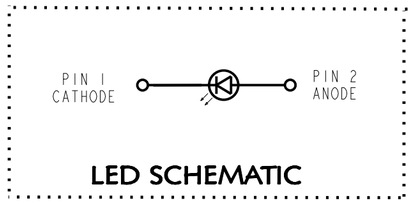
TAPING SPECIFICATIONS

ABSOLUTE MAXIMUM RATINGS AT 25° C

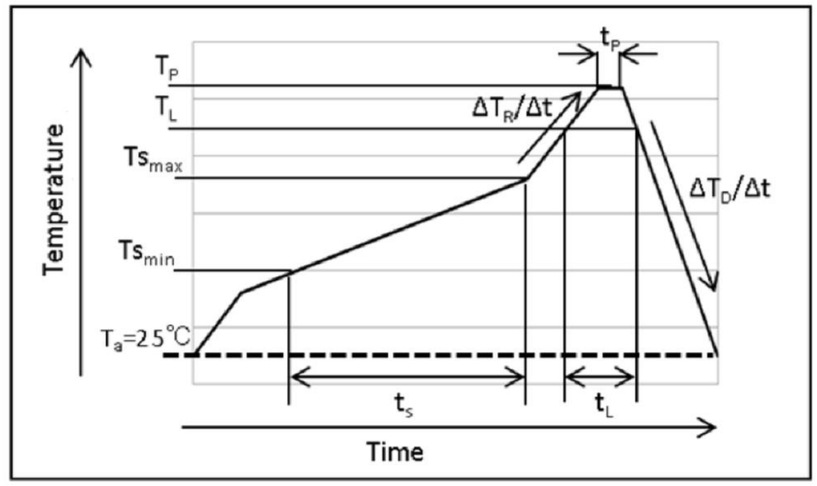
LED COLOR	POWER DISSIPATON (mW)	FORWARD CURRENT (mA)	PEAK FORWARD CURRENT (mA)	REVERSE VOLTAGE (V)	OPERATING TEMPRATURE (°C)	STORAGE TEMPRATURE (°C)
RED (630nm)	75	30	100	5	-40 TO +85	-40 TO +100
RED (620nm)						
ORANGE						
YELLOW						
YLW GREEN	81					
GREEN (560nm)						
GREEN (527nm)	70	20		12	-40 TO +100	-40 TO +100
BLUE	68					
WHITE						

OPERATING CHARACTERISTICS AT 25° C

LED COLOR		LUMINOUS INTENSITY (mcd)		DOMINANT WAVELENGTH (nm)			REVERSE CURRENT	FORWARD VOLTAGE
	IF (mA)	MIN	TYP	MIN	TYP.	MAX	MAX	TYP.
RED (630nm)	20	40	75	625	630	635	10 @ VR=5V	2 @ IF=20mA
RED (620nm)		63	120	615	620	625		
ORANGE		100	160	602	605	608		
YELLOW				587	590	593		
YLW GREEN		25	45	569	572	575		2.2 @ IF=20mA
GREEN (560nm)		6.3	16	557	560	563		
GREEN (527nm)	5	56	140	519	527	536	10 @ VR=12V	3 @ IF=5mA
BLUE		14	36	464	470	476		2.9 @ IF=5mA
WHITE		56	140	(X,Y) (0.30,0.28)				



LED SCHEMATIC



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	230-250 °C
t_L	RETENTION TIME FOR TL	WITHIN 40 sec.
T_P	PEAK TEMP	250 °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

ATTENTION:
OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

NOTES:

1. DIALIGHT P/N: 597-5XX6-502F, 597-5XX6-507F
   SUFFIX -502F FOR 20 PCS ON A SAMPLE TAPE STRIP
   SUFFIX -507F FOR 7" DUANETER REEL, PACKAGED 3000 PCS PER REEL.
2. LABELING FOR REEL AND OUTSIDE OF ALUMINUM 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. PIN NUMBERS ARE FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
5. THIS PRODUCT IS RoHS COMPLIANT. EACH BAG IS TO BE MARKED WITH RoHS COMPLIANT LABEL OR EQUIVALENT MARKINGS. LED MUST BE Pb FREE.
6. ESD WITHSTAND VOLTAGE 4000V MAX PER JS-001-2014.
7. MSL LEVEL 4

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DIALIGHT CORP INTERNAL REFERENCE ONLY : 5975006507F-A.1

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-18370
REV: A
TITLE: SM LED 0805 PACKAGE
MATERIAL

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

SHEET 1 OF 1
FAMILY TABLE: