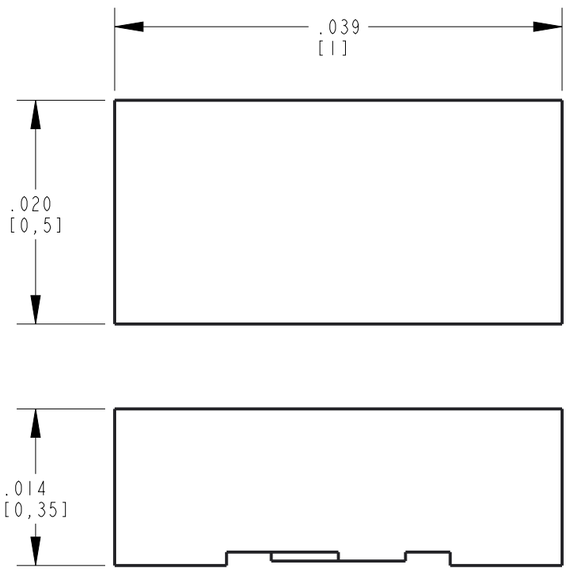
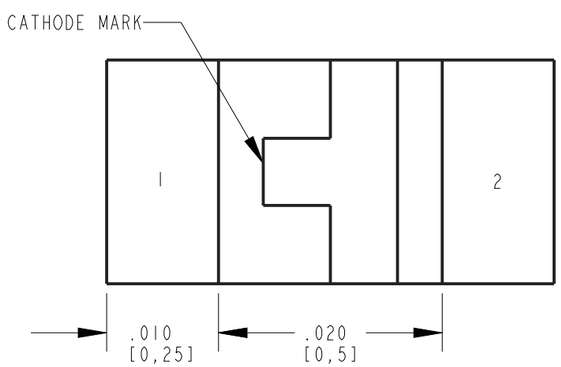
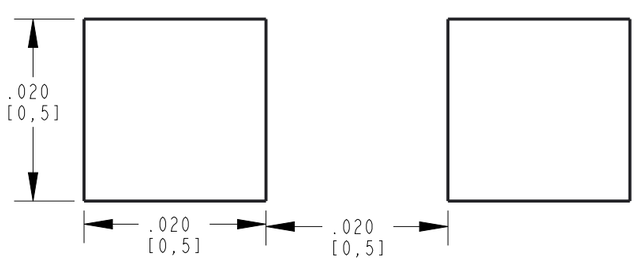
DIALIGHT PART NO.	COLOR
599-1A10-147F	RED
599-1A30-147F	ORANGE
599-1A40-147F	YELLOW
599-1A60-147F	YEL. GREEN
599-1A80-147F	GREEN
599-1A90-147F	BLUE

REV	ECN NO	REVISIONS	DRN	CKD	APP	QA	CM	DATE
A	124481	NEW RELEASE	LD	CS				12-19-24



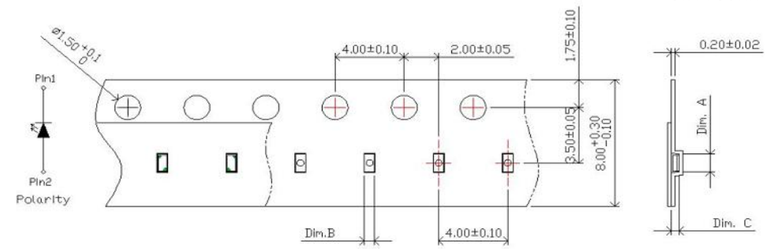




RECOMMENDED PAD LAYOUT

Packaging
Tape Dimension

UNITS:MM



Dim. A	Dim. B	Dim. C	Q'ty/Reel
1.15±0.03	0.58 ± 0.03	0.45 ± 0.03	4K

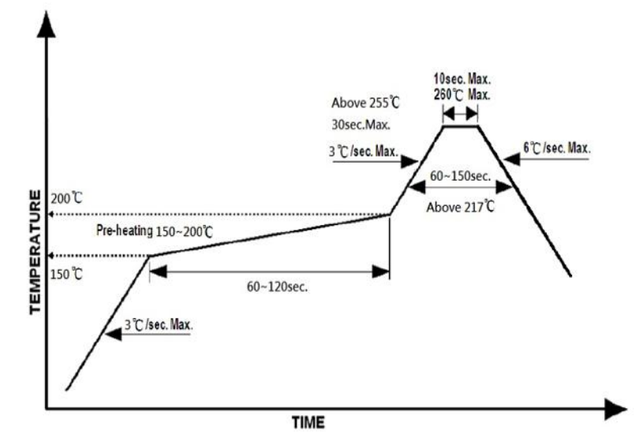
ABSOLUTE MAXIMUM RATINGS AT 25°C					
LED COLOR	POWER DISSIPATON (mW)	FORWARD CURRENT (mA)	PEAK FORWARD CURRENT *(mA)	OPERATING TEMPRATURE (°C)	STORAGE TEMPRATURE (°C)
RED	48	20	100	-40 TO +85	-40 TO +100
ORANGE	48	20	100	-40 TO +85	-40 TO +100
YELLOW	48	20	100	-40 TO +85	-40 TO +100
YELLOW-GREEN	48	20	100	-40 TO +85	-40 TO +100
GREEN	78	20	80	-40 TO +85	-40 TO +100
BLUE	63	20	80	-40 TO +85	-40 TO +100

ELECTRICAL OPTICAL CHARACTERISTICS AT 25°C											
LED COLOR	TEST CONDITION	LUMINOUS INTENSITY (mcd)			DOMINANT WAVELENGTH (nm)			FORWARD VOLTAGE (V)			VIEWING ANGLE (DEG)
	I_F (mA)	MIN.	TYP.	MAX.	MIN	TYP.	MAX	MIN.	TYP	MAX.	TYP
RED	5	11.25		45	630		650	1.6	2.0	2.4	X=118 Y=160
ORANGE	5	11.25		71.5	600		612	1.6	2.0	2.4	X=118 Y=160
YELLOW	5	7.15		45	585		590	1.6	2.0	2.4	X=118 Y=160
YELLOW GREEN	5	7.15		28.5	566		572	1.6	2.0	2.4	X=118 Y=160
GREEN	5	180		360	520		535	2.55	2.8	3.25	X=100 Y=150
BLUE	5	18		112.5	460		480	2.55	2.8	3.15	X=118 Y=160

NOTES:

1. PARTS ARE TO BE SUPPLIED IN 8mm CARRIER TAPE ON 7" REEL 4000 PCS PER REEL.
2. PIN NUMBERS ARE FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
3. THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING AND STORAGE IN ACCORDANCE WITH IPC-A-610.
4. THIS PRODUCT IS RoHS COMPLIANT. EACH BAG IS TO BE MARKED WITH RoHS COMPLIANT LABEL OR EQUIVALENT MARKINGS. LED MUST BE Pb FREE.
5. MOISTURE SENSITIVITY LEVEL IS 2A.

REFLOW SOLDER PROFILE



LED SCHEMATIC

ATTENTION:
OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

THIS DRAWING AND THE CONTENTS HEREIN ARE CONFIDENTIAL AND THE SOLE PROPERTY OF DIALIGHT CORP. REPRODUCTION OF THIS DRAWING OR CONSTRUCTION OF ANY PARTS WITHIN THIS DRAWING ARE FORBIDDEN WITHOUT THE WRITTEN CONSENT OF DIALIGHT CORP.

DIALIGHT CORP INTERNAL REFERENCE ONLY = 3D MODEL : 599IA10147F-A.3

SCALE: 75.000

ALL DIM's: INCH (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-18789

REV: A

TITLE: 0402 SURFACE MOUNT LED

MATERIAL: -

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

SHEET 1 OF 1

FAMILY TABLE: