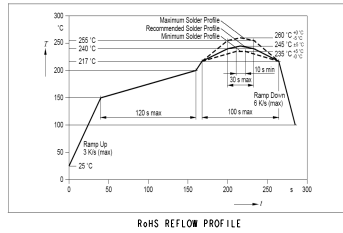
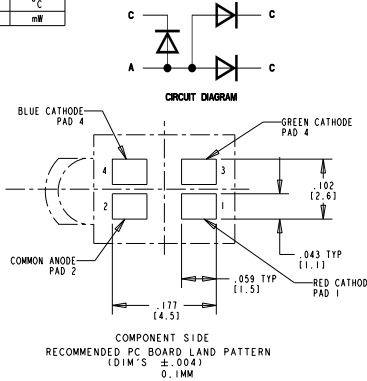


ABSOLUTE MAXIMUM RATINGS AT 25 °C AMBIENT	RED	GREEN	BLUE	UNITS
CONTINUOUS FORWARD CURRENT (ONE CHIPS ON)	30	20	20	V
CONTINUOUS FORWARD CURRENT (ALL CHIPS ON)	30	20	20	V
OPERATING TEMPERATURE	-40 TO +100			°C
STORAGE TEMPERATURE	-40 TO +100			°C
POWER CONSUMPTION	80	85	85	mW



RoHS REFLOW PROFILE

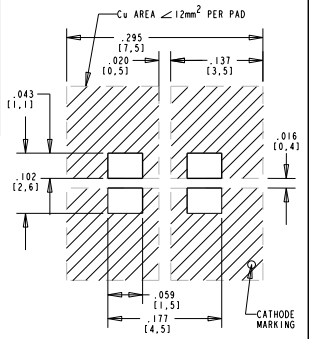


COMPONENT SIDE
RECOMMENDED PC BOARD LAND PATTERN
(DIM'S ± .004)
0.1MM

TRI-COLOR LEDS
OPERATING CHARACTERISTICS AT $T_A = 25^\circ\text{C}$

LED CHARACTERISTICS	COLOR	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
FORWARD VOLTAGE	RED	1.83	2.0	2.33	V	$I_f = 20\text{ mA}$
	GREEN	3.0	3.5	4.1		
	BLUE	3.0	3.6	4.1		
REVERSE CURRENT	RED	0.01		10	µA	$V_R = 12\text{ V (RED)}$ $V_R = 5\text{ V (GREEN/BLUE)}$
	GREEN	0.01		10		
	BLUE	0.01		10		
PEAK WAVELENGTH	RED	622			nm	$I_f = 20\text{ mA}$
	GREEN	523				
	BLUE	465				
DOMINANT WAVELENGTH	RED	615	617	625	nm	$I_f = 20\text{ mA}$
	GREEN	520	528	538		
	BLUE	463	470	475		
VIEWING ANGLE (2 θ 1/2)	RED	40		45	DEG.	$I_f = 20\text{ mA}$
	GREEN	40		45		
	BLUE	40		45		
LUMINOUS INTENSITY	RED	50	80	140	mc/d	$I = 20\text{ mA}$
	GREEN	230	340	420		
	BLUE	50	80	130		

REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A		NEW RELEASE	SM			

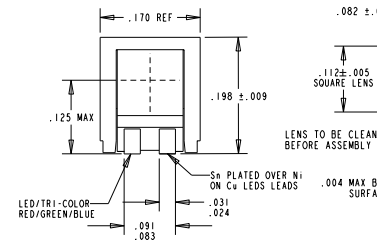


IR REFLOW SOLDERING PAD



NOTES:

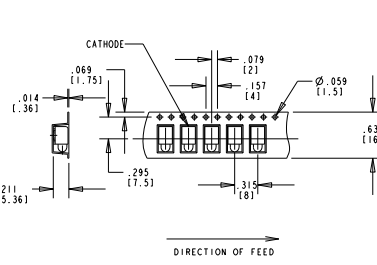
- MILLIMETER DIMENSIONS SHOWN FOR REFERENCE ONLY.
- PAD NUMBERS FOR REFERENCE ONLY; DESIGNATION NON-EXISTENT ON PART.
- STORAGE CONDITIONS FOR TAPED PRODUCT: RE-TAPING MAY BE NECESSARY FOR PRODUCT STORED MORE THAN TWELVE MONTHS.
- ORDER QUANTITY IS LED ASSEMBLIES, NOT REELS.
- 102F SUFFIX MEANS PARTS ARE PACKED ON A 20 PCS SAMPLE STRIP.
- 107F SUFFIX MEANS PARTS ARE PACKED ON A 7 INCH REEL 400 PCS/REEL.
- 113F SUFFIX MEANS PARTS ARE PACKED ON A 13 INCH REEL 1600 PCS/REEL.
- LENS MOVEMENT IN RELATIONSHIP TO THE HOUSING IS:
 - .009" T.I.R. VERTICALLY.
 - .007" MAX ABOVE SURFACE A
- FRONT AND REAR TERMINALS OF ASSEMBLY TO BE WITHIN .005 COPLANARITY.
- DEVICE HAS A MOISTURE SENSITIVITY LEVEL "2" CAUTION LABEL APPLIED AS PER JEDEC STD. 033
- THIS PRODUCT IS Pb FREE. IT IS IN COMPLIANCE WITH THE DIRECTIVE 2002/95/EC (RoHS) AND DOES NOT CONTAIN ANY OF THE BANNED SUBSTANCES Pb, Cd, MERCURY, HEXAVALENT CHROMIUM OR FLAME RETARDANTS (PBB, PBDE)
- REFER TO DIALIGHT P/N 591-3501-102F, 591-3501-107F & 591-3501-113F.
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING AND STORAGE IN ACCORDANCE WITH IPC-A-610.



LENS TO BE CLEANED BEFORE ASSEMBLY

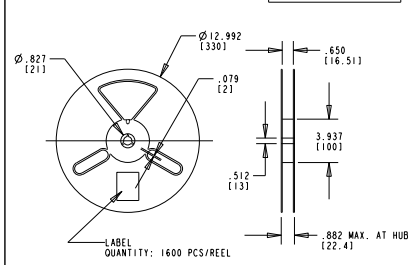
LED LEAD SOLDERING SURFACE A

TAPING SPECIFICATION

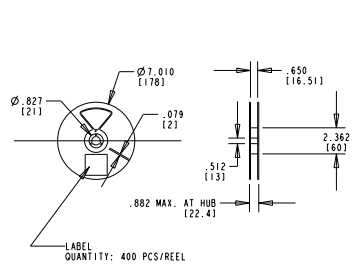


TOLERANCE: .004 UNLESS OTHERWISE SPECIFIED.
MILLIMETER DIMENSIONS SHOWN FOR REFERENCE ONLY.

REEL SPECIFICATION



13 INCH DIA. REEL SPECIFICATIONS



7 INCH DIA. REEL SPECIFICATIONS



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

RoHS COMPLIANT 591-3501-1XXF SURFACE MOUNT LED PART NUMBERS WITH THE "F" SUFFIX ENDING ARE RoHS COMPLIANT. PACKAGING IS MARKED WITH "RoHS COMPLIANT" LABEL OR EQUIVALENT MARKINGS. PARTS CAN BE REFLOW SOLDERED PER RoHS REFLOW PROFILE. WAVE SOLDERED, DIP SOLDERED OR HAND SOLDERED USING TYPICAL LEAD-FREE SOLDERING PROCESS WITH MAX 260°C TEMP. FOR 10-20 SEC.

THIS DRAWING AND THE CONTENTS HEREIN ARE CONFIDENTIAL AND THE SOLE PROPERTY OF DIALIGHT. REPRODUCTION OF THIS DRAWING OR CONSTRUCTION OF ANY PARTS WITHIN THIS DRAWING ARE FORBIDDEN WITHOUT THE WRITTEN CONSENT OF DIALIGHT.	
SCALE: DRAWING SCALE	DRAWING NUMBER
ALL DIM'S IN: INCHES (MM)	C-17491
TOLERANCES: UNLESS OTHERWISE SPECIFIED	REV
FRACTIONS: ± 1/16"	A
DECIMALS: ± .001" - ± .01"	TITLE
DECIMALS: ± .001" - ± .005"	TRI-COLOR LED RED GREEN, BLUE
ANGLES: ± 1°	RoHS COMPLIANT
FINISH:	MATERIAL
FSCM 83330	Dialight
	1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727
	SHEET 1 OF 1 FAMILY TABLE