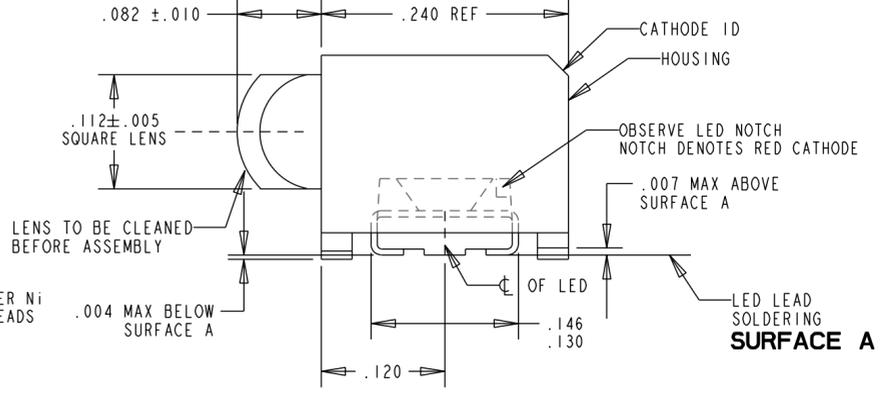
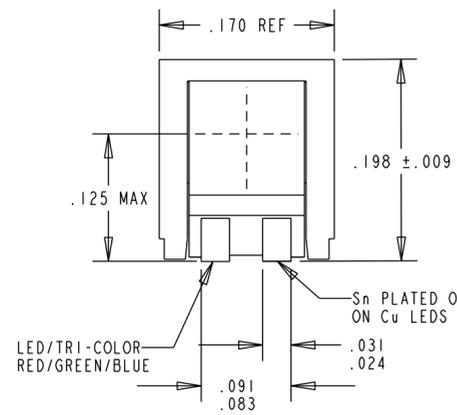
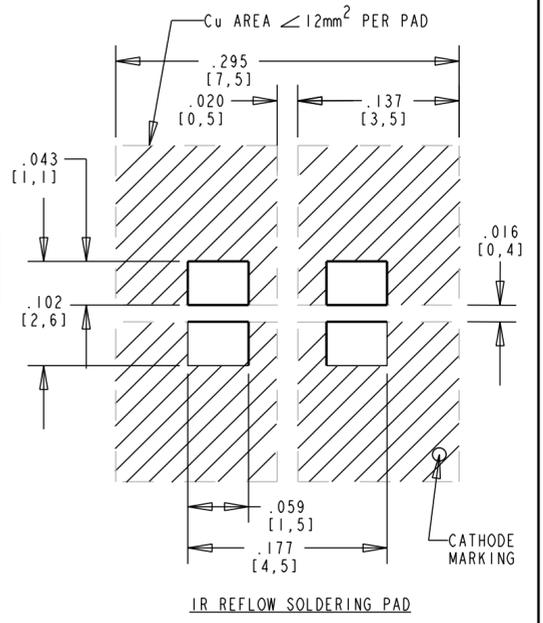
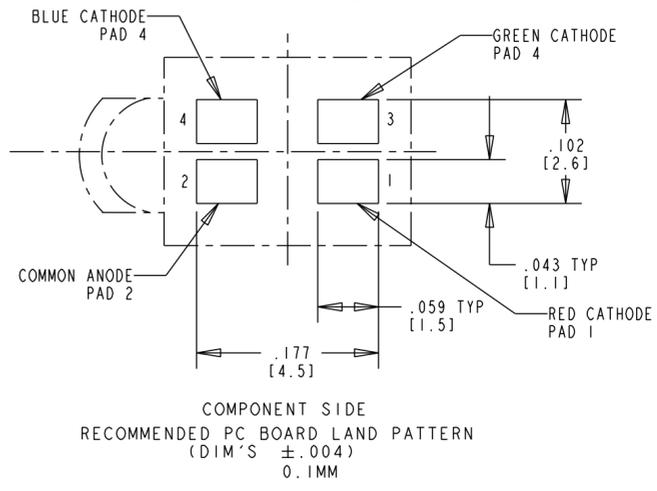
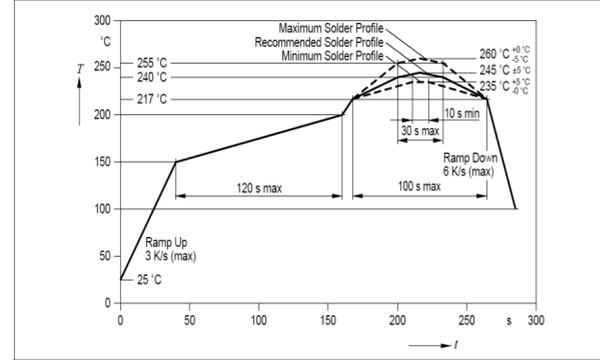
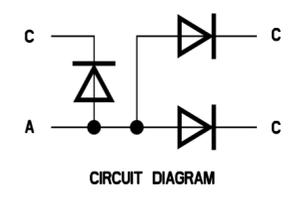


ABSOLUTE MAXIMUM RATINGS AT 25 °C AMBIENT	RED	GREEN	BLUE	UNITS
CONTINUOUS FORWARD CURRENT (ONE CHIPS ON)	30	20	20	V
CONTINUOUS FORWARD CURRENT (ALL CHIPS ON)	30	20	20	V
OPERATING TEMPERATURE	-40 TO +100			°C
STORAGE TEMPERATURE	-40 TO +100			°C
POWER CONSUMPTION	80	85	85	mW

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

TRI-COLOR LEDS
OPERATING CHARACTERISTICS AT T_A = 25 °C

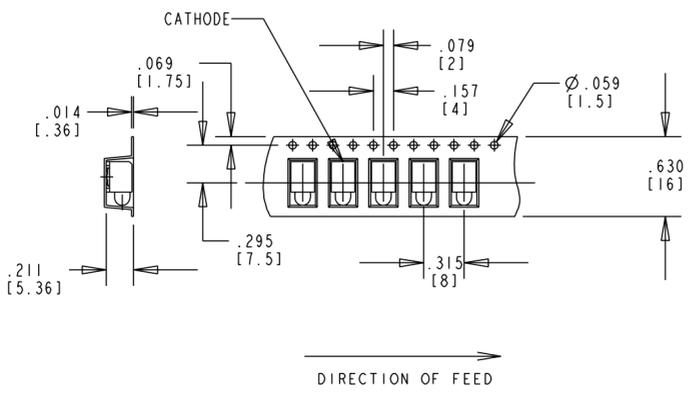
LED CHARACTERISTICS	COLOR	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
FORWARD VOLTAGE	RED	1.83	2.0	2.33	V	I _f = 20 mA
	GREEN	3.0	3.5	4.1		
	BLUE	3.0	3.6	4.1		
REVERSE CURRENT	RED	0.01		10	mA	V _R = 12 V (RED) V _R = 5 V (GREEN/BLUE)
	GREEN	0.01		10		
	BLUE	0.01		10		
PEAK WAVELENGTH	RED		622		nm	I _F = 20 mA
	GREEN		523			
	BLUE		465			
DOMINANT WAVELENGTH	RED	615	617	625	nm	I _F = 20 mA
	GREEN	520	528	538		
	BLUE	463	470	475		
VIEWING ANGLE (2 θ 1/2)	RED	40		45	DEG.	I _f = 20 mA
	GREEN	40		45		
	BLUE	40		45		
LUMINOUS INTENSITY	RED	50	90	140	mcd	I = 20 mA F
	GREEN	270	340	420		
	BLUE	50	80	130		



- 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" T.I.R. HORIZONTALLY.
 - 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.

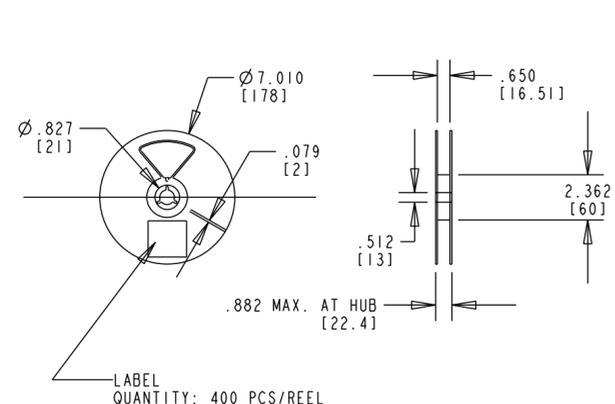
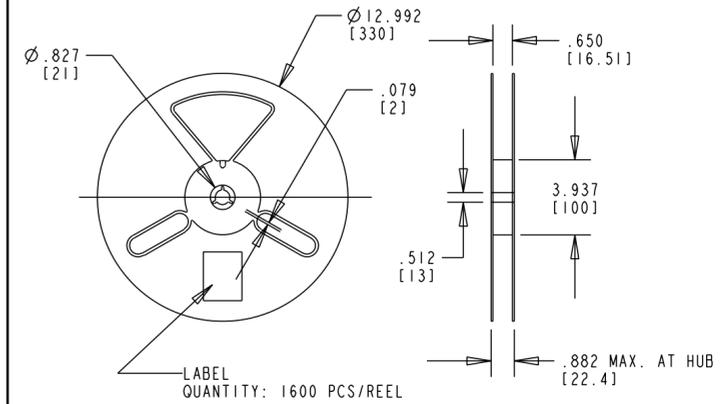
Solder resist

TAPING SPECIFICATION



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

REEL SPECIFICATION



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.

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SCALE: DRAWING SCALE	DRAWING NUMBER	REV
ALL DIM'S IN: INCHES (MM)	C-17491	A
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE TRI-COLOR LED RED GREEN, BLUE RoHS COMPLIANT	
FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005 DECIMALS (.XXXX): ±.0005 ANGLES: ±1°	MATERIAL	
FINISH:	Dialight 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727	
FSCM 83330	SHEET 1 OF 1	FAMILY TABLE:

Mouser Electronics

Authorized Distributor

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