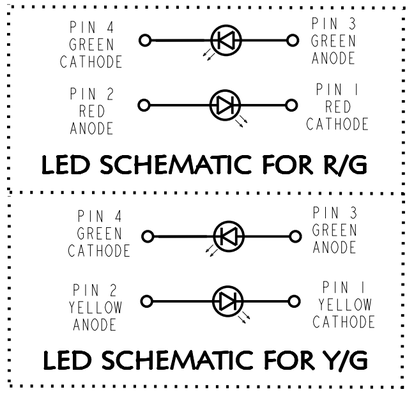
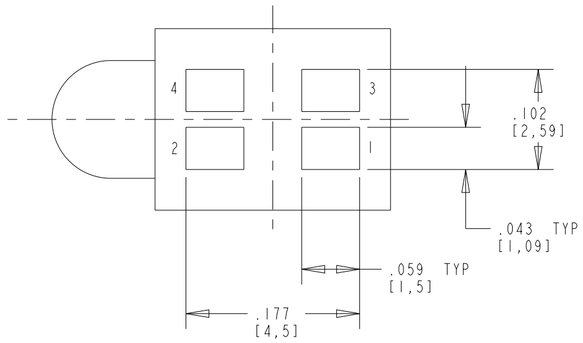
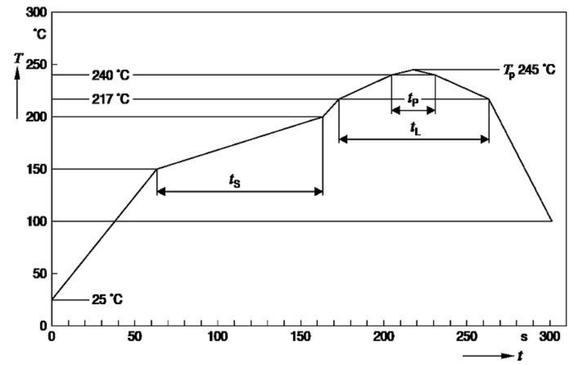
REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	—	NEW RELEASE	BP	—	NO	8-8-17
B	—	ADDED CORRESPONDING P/N'S FOR BOTH LEDS IN THE TABLE	BP	—	NO	8-18-17

	OPERATING CHARACTERISTICS AT 25°C AMBIENT												
	LED COLOR		LUMINOUS INTENSITY @I_F = 10 mA (mcd)			FORWARD VOLTAGE @I_F = 2 mA (V)		REVERSE CURRENT (µA) V = 12V		DOMINANT WAVELENGTH (nm)			PEAK WAVELENGTH (nm)
			MIN	TYP	MAX	TYP	MAX	TYP	MAX	MIN	TYP	MAX	TYP
591-3001-856F	RED/GRN	RED	—	17	—	1.8	2.2	0.01	10	624	630	636	643
591-3001-858F		GREEN	—	11	—					566	570	575	572
591-3101-857F	YLW/GRN	YELLOW	—	22	—	1.8	2.2	0.01	10	580	587	595	591
591-3101-859F		GREEN	—	12	—					566	570	575	572



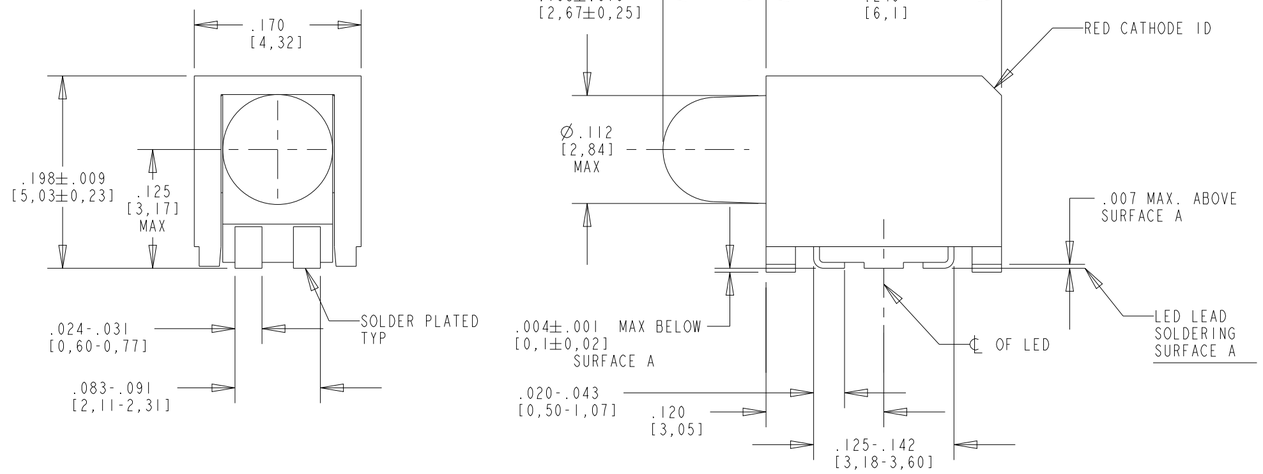


COMPONENT SIDE
RECOMMENDED PC BOARD LAND PATTERN
(DIM'S ±.004)
0.1MM



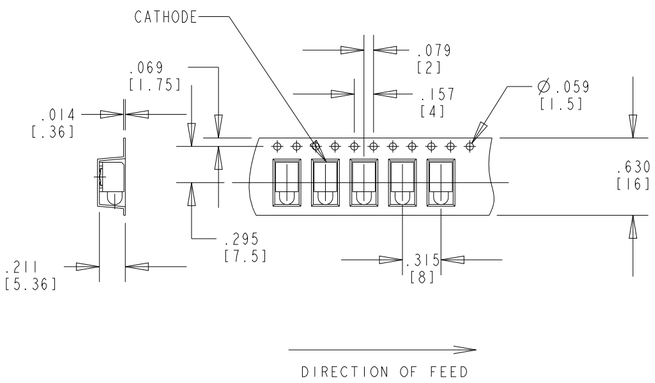
RECOMMENDED SOLDER PROFILE

ABSOLUTE MAXIMUM RATINGS AT 25 °C AMBIENT	RED/GRN / YLW/GRN	UNITS
CONTINUOUS FORWARD CURRENT	15	mA
REVERSE VOLTAGE	12	V
SURGE CURRENT	100	mA
PEAK SOLDERING TEMPERATURE	245	°C
OPERATING TEMPERATURE	-40 TO +100	°C
STORAGE TEMPERATURE	-40 TO +100	°C
TIME ABOVE LIQUIDUS TEMPRATURE (t_L)	80 Seconds Minimum	S
	100 Seconds Maximum	
TIME WITHIN 5°C OF SPECIFIED PEAK TEM (T_P - 5°C)	10 Seconds Minimum	S
	30 Seconds Maximum	
PEAK TEMPRATURE T_P	245 Recommended	°C
	260 Maximum	
RAMP-UP RATE TO PREHEAT (25°C TO 150°C)	2 °C/s Recommended 3 °C/s Max	°C/S
RAMP-UP RATE TO PEAK (T_{Smax} to T_P)		
RAMP-DOWN RATE (T_P to 100°C)	3 °C/s Recommended	°C/S
	6 °C/s Max	
TIME (25°C to T_P)	480 Seconds Maximum	s



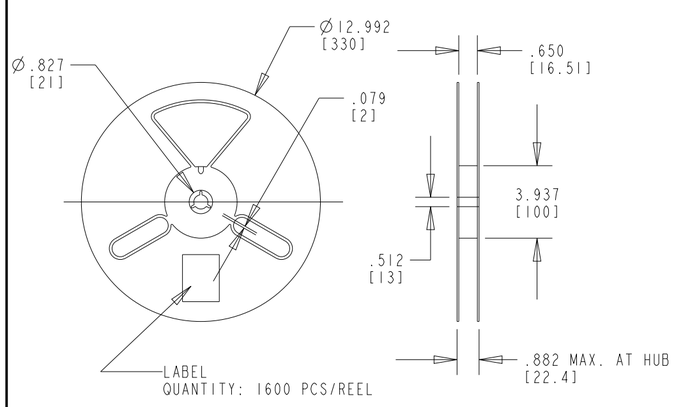
NOTES:
1. MILLIMETER DIMENSIONS SHOWN FOR REFERENCE ONLY.
2. PAD NUMBERS FOR REFERENCE ONLY,DESIGNATION NON-EXISTENT ON PART.
3. STORAGE CONDITIONS FOR TAPED PRODUCT: RE-TAPING MAY BE NECESSARY FOR PRODUCT STORED MORE THAN TWELVE MONTHS.
4. -856F & 857F SUFFIX MEANS PARTS ARE PACKED ON A 13 INCH REEL, 1600 PCS/REEL
   -858F & 859F SUFFIX MEANS PARTS ARE PACKED ON A 7 INCH REEL, 400 PCS/REEL
5. LENS MOVEMENT IN RELATIONSHIP TO THE HOUSING IS:
   .009" T.I.R. VERTICALLY.
   .007" T.I.R. HORIZONTALLY.
6. FRONT AND REAR TERMINALS OF ASSEMBLY TO BE WITHIN .005 COPLANARITY.
7. DIALIGHT PART NUMBER: 591-3001-856F, 591-3001-858F,
   591-3101-857F, 591-3101-859F
8. DEVICE HAS A MOISTURE SENSITIVITY LEVEL "2" CAUTION LABEL APPLIED AS PER JEDEC STD. 033
9. 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)

TAPING SPECIFICATION

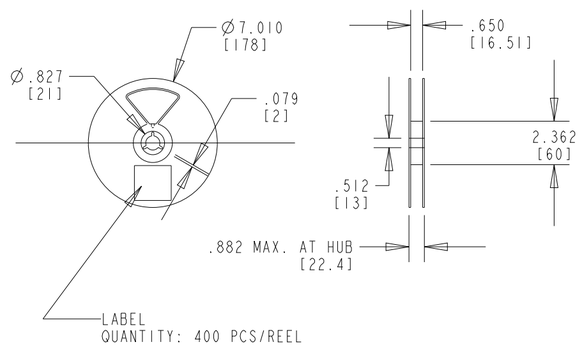


TOLERANCE: .004 UNLESS OTHERWISE SPECIFIED.
MILLIMETER DIMENSIONS SHOWN FOR REFERENCE ONLY.

REEL SPECIFICATION



13 INCH DIA. REEL SPECIFICATIONS



7 INCH DIA. REEL SPECIFICATIONS

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SCALE: DRAWING SCALE	DRAWING NUMBER: C-18340
ALL DIM'S IN: INCHES (MM)	REV: B
TOLERANCES: UNLESS OTHERWISE SPECIFIED FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005 DECIMALS (.XXXX): ±.0005 ANGLES: ±1°	TITLE: 3mm PRISM R/G,Y/G (LOW CURRENT) ROUND LENS, RoHS COMPLIANT
FINISH	MATERIAL
FSCM 83330	Dialight 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 (732) 919-3119 www.dialight.com
	SHEET 1 OF 1 — FAMILY TABLE: