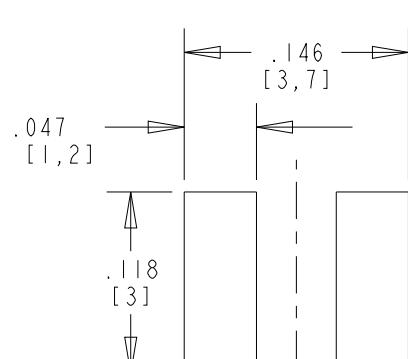
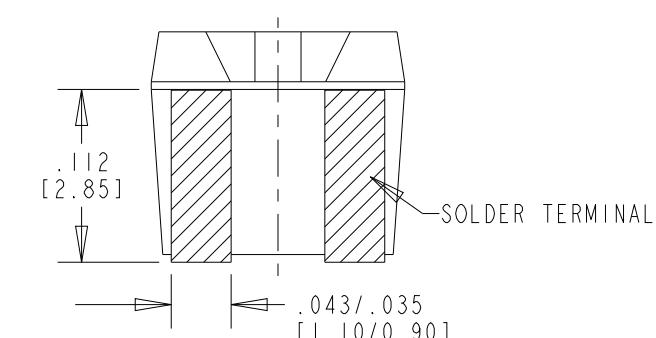
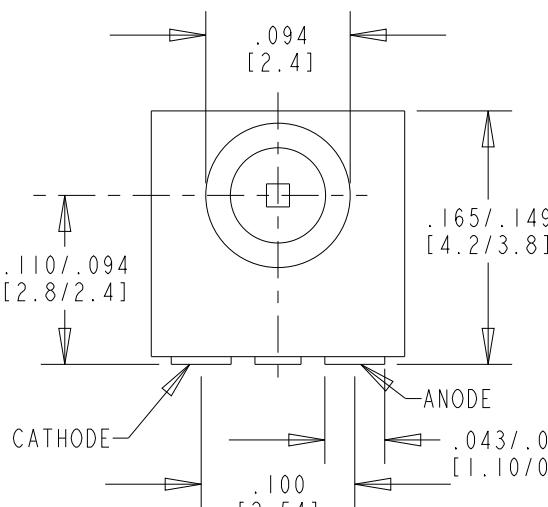
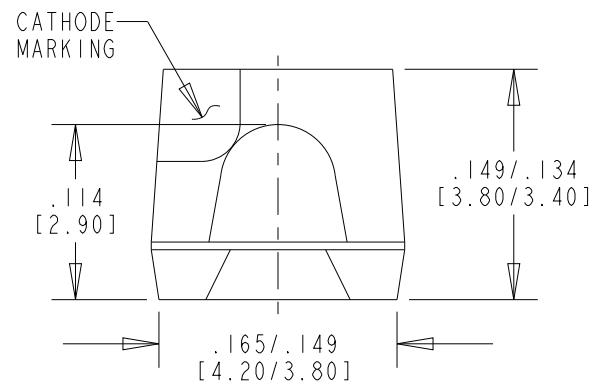


## NOTES:

1. COLORLESS CLEAR WINDOW.
2. LED CHIP: InGaAlP
3. LED LEAD FINISH: PURE MATT TIN (Sn)  $8.0 \pm 2.0 \mu\text{m}$  WITH NICKEL (Ni) UNDERLAYER OVER COPPER (Cu).
4. DIALIGHT PART NUMBERS: 597-2001-202F, -213F  
597-2301-202F, -213F  
597-2401-202F, -213F.
5. PACKAGING:  
-202F SUFFIX INDICATES 20 PCS SAMPLE STRIP  
-213F SUFFIX INDICATES 2000 PARTS/REEL ON 13" [330 mm] DIA. REEL
6. REEL AND PACKAGING HAS A LABEL WITH DIALIGHT LOGO, DIALIGHT P/N, QTY PER REEL, DATE CODE, LOT NUMBER, INTENSITY BIN CODE, COLOR BIN CODE, AND COUNTRY OF ORIGIN.
7. THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.

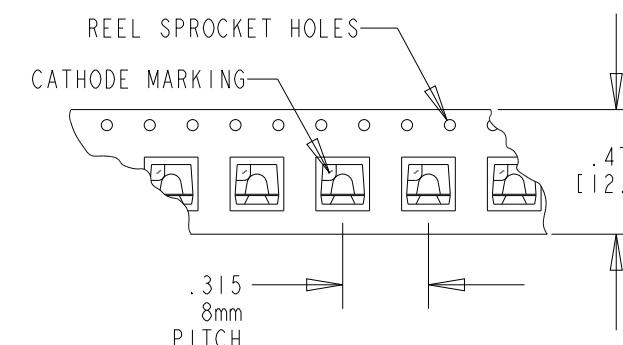
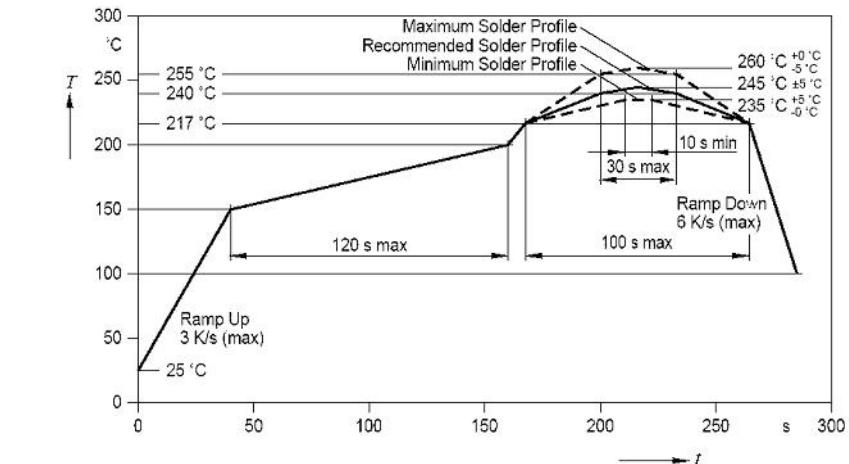


SOLDER RESIST

RECOMMENDED PAD LAYOUT  
FOR IMPROVED HEAT DISSIPATION

Cu AREA > 16mm<sup>2</sup>

REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	—	NEW RELEASE	TWC	TC	N.O.	9-22-05
B	—	UPDATED LED SPECS, ADDED RoHS COMPLIANT NOTE, ADDED ESD NOTE AND SYMBOL.	KLJ	NO	MES	2-15-08
C	—	UPDATE LED INT (3.55 & 42) WAS (2.24 & 37) FOR 5972301213F, 202F	JTD	NO	MES	2-29-12



DIALIGHT P/N	COLOR	FORWARD VOLTAGE (V) @ I <sub>F</sub> = 10 mA			LUMINOUS INTENSITY (mcd) @ I <sub>F</sub> = 2 mA			LUMINOUS INTENSITY (mcd) @ I <sub>F</sub> = 10 mA			PEAK WAVELENGTH (nm)	DOMINANT WAVELENGTH (nm)	VIEWING ANGLE (2θ 1/2)		
		MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.					
597-2001-213F, -202F	RED	1.7	1.8	2.2	4.5	7.8	11.2	20	40	60	643	624	630	636	120
597-2301-213F, -202F	GREEN	1.7	1.8	2.2	3.55	5.6	9.0	10	42	50	572	566	570	575	120
597-2401-213F, -202F	YELLOW	1.7	1.8	2.2	5.6	14.0	22.4	25	70	115	591	580	587	595	120

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT		UNITS	RED	GREEN	YELLOW
POWER DISSIPATION		mW	45	40	45
CONTINUOUS FORWARD CURRENT		mA		20	
PEAK FORWARD CURRENT t <sub>P</sub> < 10 μs, D = .005		mA		100	
REVERSE VOLTAGE @ 10 μA		V		12	
SOLDERING TEMPERATURE, 10 SEC.		°C		260	
OPERATING TEMPERATURE		°C	-40 TO +100		
STORAGE TEMPERATURE		°C	-40 TO +100		



ATTENTION:  
OBSERVE PRECAUTIONS FOR  
HANDLING ELECTROSTATIC  
SENSITIVE DEVICES

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SCALE: DRAWING SCALE ALL DIM'S IN: INCHES (MM)	DRAWING NUMBER C-17300	REV C
TOLERANCES: UNLESS OTHERWISE SPECIFIED FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005 DECIMALS (.XXXX): ±.0005 ANGLES: ±1°		
FINISH:		
Material:		
Dialight	1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727	
FSCM 83330		
SHEET 1 OF 1		
FAMILY TABLE:		

## RoHS COMPLIANT 597-2X01-XXF

Part Numbers with the "F" suffix ending are RoHS Compliant.

For example: 597-2401-207F

Reel and bag packaging are marked with "RoHS Compliant" label or equivalent markings. These parts can be used with RoHS reflow profile. Parts can be wave soldered, dip soldered or hand soldered using typical lead-free soldering process with max 260°C temp. for 10 sec.