

OPERATING CHARACTERISTICS AT 25 °C AMBIENT																	REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
DIALIGHT P/N	LED CHIP MATERIAL	COLOR	EPOXY COLOR	I _F (mA)	FORWARD VOLTAGE (V)		LUMINOUS INTENSITY (mcd)			REVERSE CURRENT (μA) (@ V _R = 4 V)	PEAK WAVELENGTH (nm)	DOMINANT WAVELENGTH (nm)			VIEWING ANGLE (DEGREES)	REVISIONS							
					TYP.	MAX.	MIN.	TYP.	MAX.	MAX.		MIN.	TYP.	MAX.		REV.	ECN.	DRN.	DATE				
597-5111-407F, -402F	AlGaAs	RED	WHITE DIFFUSED	20	1.7	2.3	7.0	11.7	16.4	100	660	642	647	653	150	A	—	TWC	10-10-05				
597-5202-407F, -402F	GaP	ORANGE		20	2.2	2.8	2.2	3.7	5.2	100	605	600	606	612	150	A	—	TWC	10-10-05				
597-5311-407F, -402F	GaP	GREEN		20	2.1	2.8	3.8	6.4	9.0	100	560	562	567	573	150	A	—	TWC	10-10-05				
597-5411-407F, -402F	GaP	YELLOW		20	2.1	2.8	7.0	11.7	16.4	100	570	570	572	577	150	A	—	TWC	10-10-05				

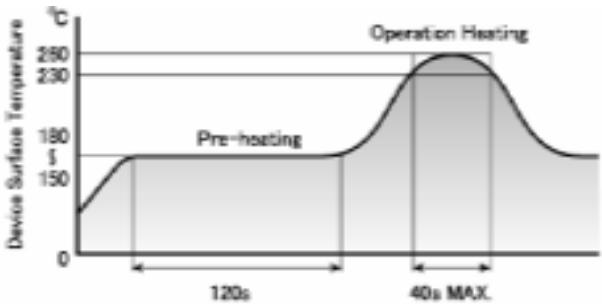
Device Surface Temperature (°C)

Pre-heating

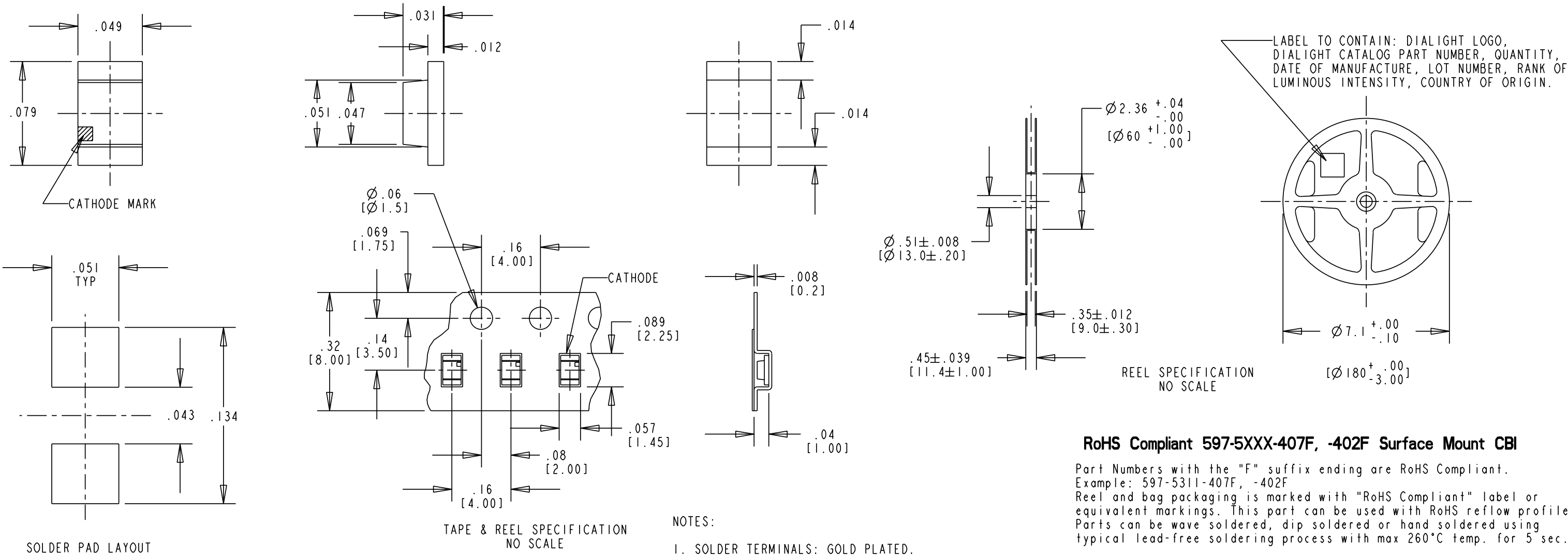
Operation Heating

120s

40s MAX.



RoHS COMPLIANT REFLOW PROFILE



RoHS Compliant 597-5XXX-407F, -402F Surface Mount CBI

Part Numbers with the "F" suffix ending are RoHS Compliant.
Example: 597-5311-407F, -402F
Reel and bag packaging is marked with "RoHS Compliant" label or equivalent markings. This part 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 5 sec.

NOTES:

- SOLDER TERMINALS: GOLD PLATED.
- SOLDER ADHERENCE: EACH PAD PER MIL-STD-202E, METHOD 208C.
- TAPE AND REEL AS PER EIA STANDARD 481-1 WITH CATHODE TOWARD SPROCKET.
- 407F PARTS PACKAGED ON 180 mm DIA. REEL, 8 mm TAPE, 4000/REEL (SEE SKETCH). -402F PARTS PACKAGED ON A 20 PC SAMPLE STRIP.
- DIALIGHT PART NUMBERS: 597-5111-407F, -402F, 597-5202-407F, -402F, 597-5311-407F, -402F, 597-5411-407F, -402F.
- TAPE AND REEL LEDS MAY REQUIRE RE-TAPING AFTER TWELVE MONTHS.

ABSOLUTE MAXIMUM RATING AT 25°C AMBIENT	RED	YELLOW GREEN ORANGE	UNITS
POWER DISSIPATION	57.5	70	mW
CONTINUOUS FORWARD CURRENT	25		mA
PEAK FORWARD CURRENT (< 1/20 DUTY CYCLE Tw < 1 msec)	60		mA
DERATE LINEAR FROM 25 °C	.36		mA/°C
REVERSE VOLTAGE	4		V
OPERATING TEMPERATURE	-30 TO +85		°C
STORAGE TEMPERATURE	-40 TO +100		°C
DIP SOLDERING FOR 5 SEC. MAX.	260		°C
IRON SOLDERING TEMPERATURE (@ < 3 SEC)	280		°C

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SCALE: DRAWING SCALE ALL DIM'S IN: INCHES (MM)		DRAWING NUMBER C-17317	REV A
TOLERANCES: UNLESS OTHERWISE SPECIFIED FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005 DECIMALS (.XXXX): ±.0005 ANGLES: ±1°		TITLE SMT LED RoHS COMPLIANT	
FINISH:		MATERIAL	
FSCM 83330		Dialight 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727	
		SHEET 1 OF 1	FAMILY TABLE: