

Excellent Integrated System Limited

Stocking Distributor

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For any questions, you can email us directly:

sales@integrated-circuit.com

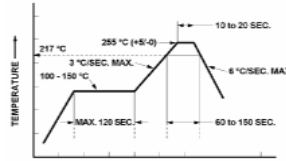
OPERATING CHARACTERISTICS AT 25°C AMBIENT

LUMINOUS COLOR	FORWARD VOLTAGE (V) $I_f = 20 \text{ mA}$		LUMINOUS INTENSITY (mcd) $I_f = 20 \text{ mA}$			PEAK WAVELENGTH (nm)	DOMINANT WAVELENGTH (nm)	VIEWING ANGLE (DEGREES)	LUMINOUS EFFICACY (lm/w)	LUMINOUS INTENSITY / TOTAL FLUX $I_v(\text{mcd})/\Phi_v(\text{lm})$
	TYP.	MAX.	MIN.	TYP.	MAX.	TYP.	TYP.	TYP.	TYP.	TYP.
BLUE	3.9	4.3	45.00	56.00		468	470	120	75	0.45

REV	ECN NO	REVISIONS	DRN	OKD	APP	DATE
A		NEW RELEASE	TWC	N.O.	N.O.	5-12-05
B		UPDATED RoHS REFLOW PROFILE AND SOLDERING TEMP; ADDED RoHS COMPLIANCE NOTE	TWC			

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT

	BLUE	UNITS
POWER DISSIPATION	114	mW
PEAK FORWARD CURRENT (DUTY FACTOR = 10%, FREQUENCY = 1 kHz)	100	mA
DC FORWARD CURRENT	30	mA
DERATE LINEARLY FROM 40°C	0.42	mA/°C
REVERSE VOLTAGE	5	V
JUNCTION TEMPERATURE	+110	°C
STORAGE TEMPERATURE	-55 TO +100	°C
OPERATING TEMPERATURE	-55 TO +100	°C
I.R. REFLOW SOLDERING TEMPERATURE, 20 SEC. MAX.	260	°C



RoHS COMPLIANT REFLOW SOLDERING PROFILE

Dialight 1501 ROUTE 34 SOUTH
FARMINGDALE, N.J. 07727

CATALOG P/N 597-3604-307F

LED P/N

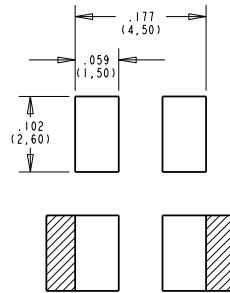
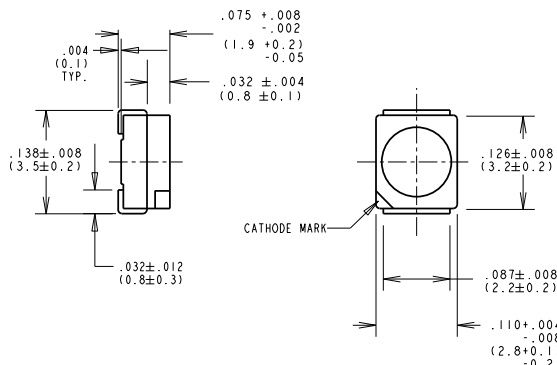
DATE CODE/LOT #

INTENSITY BIN/COLOR CODE

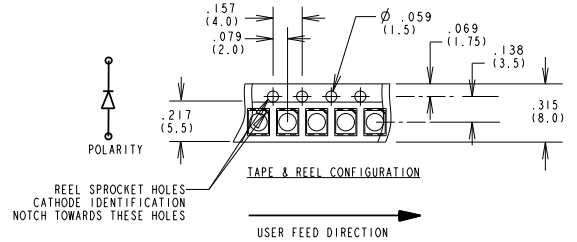
QTY/REEL

COUNTRY OF ORIGIN

FIGURE (1)



RECOMMENDED SOLDERING PAD PATTERN



RoHS Compliant 597-3604-30XF Surface Mount LED

Part Numbers with the "F" suffix ending are RoHS Compliant.
Example: 597-3604-307F
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.

- NOTES:
- DIALIGHT PART NO. 597-3604-307F FULL REEL AND 597-3604-302F 20 PCS SAMPLE STRIP.
 - DIE: InGaN BLUE
 - SOLDER ADHERANCE: EACH PAD PER MIL-STD-202E, METHOD 208C. TERMINAL FINISH: PURE TIN (Sn) OVER COPPER ALLOY (Cu). PRODUCT WITH "F" SUFFIX IS RoHS COMPLIANT.
 - TAPE AND REEL AS PER EIA STANDARD 481-1, WITH CATHODE TOWARD SPROCKET.
 - PACKAGE ON 180 mm DIA REEL, 8 mm TAPE, 2000/REEL. PACKAGING TO INCLUDE: DIALIGHT LABEL (SEE FIGURE 1) WITH CATALOG P/N, LED P/N OPTIONAL, DATE CODE/LOT NO., LUMINOUS INTENSITY RANK AND COLOR BIN CLASSIFICATION, QTY / REEL, AND COUNTRY OF ORIGIN. LABEL BOTH REEL AND SEALED ALUMINUM VAPOR BARRIER BAG WITH DESICCANT INSIDE. PARTS POSITIONED WITH 4 mm PITCH ON REELS. EACH REEL AND BAG TO BE MARKED WITH RoHS LABEL P/N 9100-117-0852-99 OR EQUIVALENT.
 - ALUMINUM MOISTURE BARRIER BAG TO HAVE A MOISTURE SENSITIVITY LEVEL "2a" LABEL APPLIED AS PER JEDEC STD. 033
 - TAPE AND REEL LEDS MAY REQUIRE RE-TAPING AFTER TWELVE MONTHS.
 - THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING AND STORAGE IN ACCORDANCE WITH IPC-A-610.



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

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SCALE: DRAWING SCALE: ALL DIMS IN: INCHES (MM)	DRAWING NUMBER
TOLERANCES: UNLESS OTHERWISE SPECIFIED FRACTIONS: ±1/64 DECIMALS (.XXX): ±.01 DECIMALS (.XXXX): ±.0005 ANGLES: ±°	REV B
FINISH:	TITLE BLUE PLCC-SM SMT LED RoHS COMPLIANT
FSCM 83330	MATERIAL
	Dialight 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727
	SHEET 1 OF 1 FAMILY TABLE: