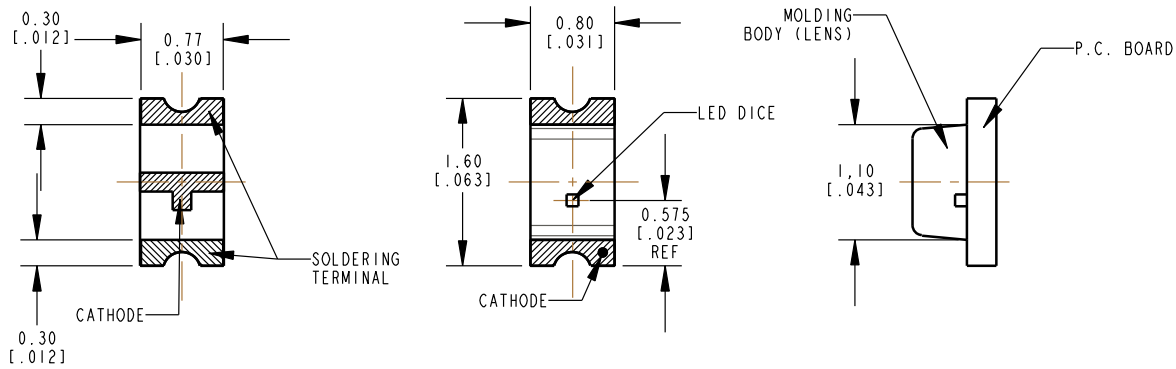


Design 1501 RT 34 SOUTH
FARMINGDALE, N.J. 07727

CATALOG P/N 597-3607-607F
LED P/N 4500-597-3607-67
DATE CODE/LOT #
INTENSITY BIN/COLOR CODE
QTY/REEL
COUNTRY OF ORIGIN

- NOTES:
1. EPOXY COLOR: WATER CLEAR.
 2. DIE: InGaN BLUE
 3. LEADS: Au (GOLD) PLATED, OVER Ni (NICKEL) ON Cu (COPPER ALLOY) ON A FR4 SUBSTRATE.
 4. SOLDER ADHERANCE: BOTH LEADS PER MIL-STD-202E, METHOD 208C.
 5. PART TAPED AND REELED PER EIA-RS-481-1.
 6. PART SUPPLIED 3000 DEVICES PER 7" DIAMETER REEL, ONE REEL PER SEALED ALUMINUM BAG WITH DESICCANT.
 7. LABELING FOR REEL AND OUTSIDE OF ALUMINUM FOIL BAG: DIALIGHT P/N, DATE CODE/ LOT NUMBER, INTENSITY BIN CODE/COLOR CODE, QTY/REEL AND COUNTRY OF ORIGIN.
 8. THIS COMPONENT IS AN ELECTROSTATIC DISCHARGE SENSITIVE DEVICE (ESD). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING AND STORAGE IN ACCORDANCE WITH IPC-A-610.
 9. DIALIGHT P/N: 597-3607-607F FULL REEL OR -602F 20 PIECE SAMPLE STRIP.
 10. TAPE AND REEL LEDS MAY REQUIRE RE-TAPING AFTER TWELVE MONTHS.
 11. THIS PRODUCT IS Pb FREE. IT IS IN COMPLIANCE WITH THE EUROPEAN UNION'S RoHS DIRECTIVE. EACH REEL & BAG IS MARKED WITH THE RoHS LABEL 9100-117-0852-99 OR EQUIVALENT

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

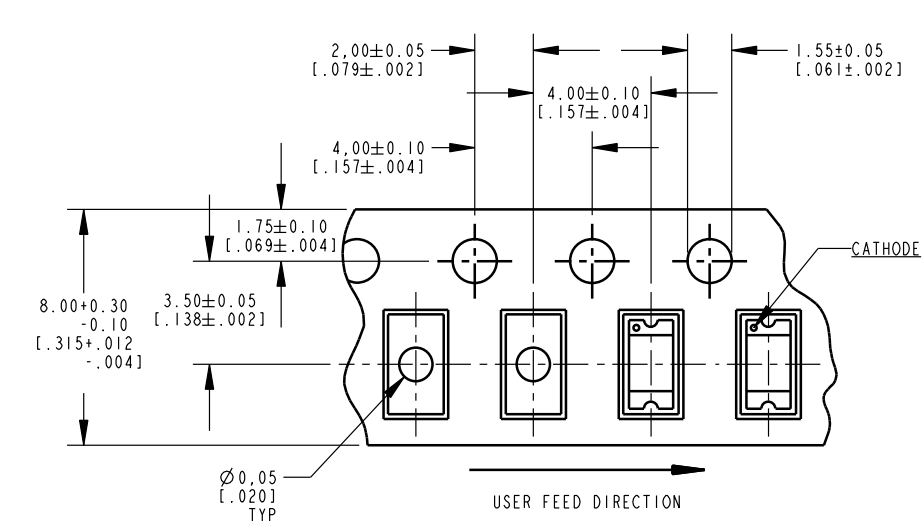
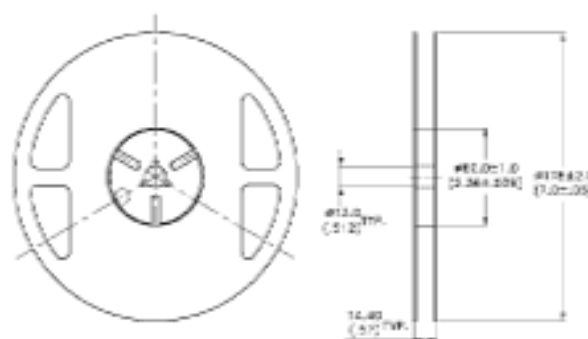
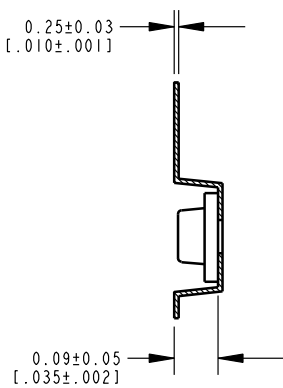


FIGURE (1)



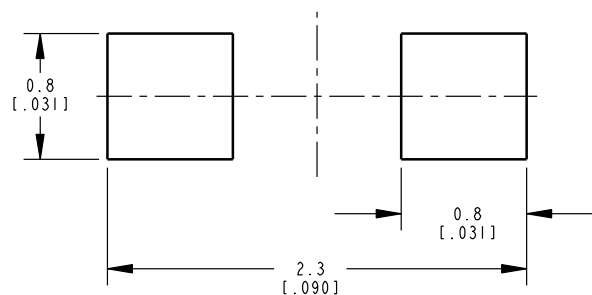
PACKAGE DIMENSIONS OF TAPE AND REEL

ABSOLUTE MAXIMUM RATINGS AT 25° C AMBIENT

	BLUE	UNITS
POWER DISSIPATION	76	mW
DERATE LINEARLY FROM 50° C	0.25	mA/ °C
CONTINUOUS FORWARD CURRENT	20	mA
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH)	100	mA
REVERSE VOLTAGE	5	V
OPERATING TEMPERATURE	-20 TO +80	°C
STORAGE TEMPERATURE	-30 TO +100	°C
WAVE SOLDERING CONDITION	260° C FOR 5 SEC	
INFRARED SOLDERING CONDITION	260° C FOR 5 SEC	
VAPOR PHASE SOLDERING CONDITION	215° C FOR 3 MIN	

OPERATING CHARACTERISTICS AT 25° C AMBIENT

LED CHARACTERISTICS	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
LUMINOUS INTENSITY (I_V)	28.0	60.0	112.0	mcd	$I_F = 20$ mA
VIEWING ANGLE ($2\theta_{1/2}$)		130		DEGREES	
PEAK WAVELENGTH (λ_p)		468		nm	MEASUREMENT @ PEAK
DOMINANT WAVELENGTH (λ_d)	465.0		475.0	nm	$I_F = 20$ mA
SPECTRAL LINE HALF-WIDTH ($\Delta\lambda$)		25		nm	
FORWARD VOLTAGE (V_F)	2.80		3.80	V	$I_F = 20$ mA
REVERSE CURRENT (I_R)			10	μ A	$V_R = 5$ V

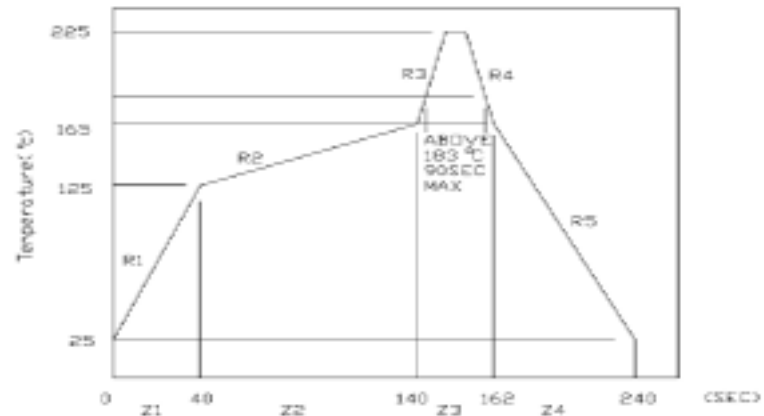


SUGGEST SOLDERING PAD DIMENSIONS

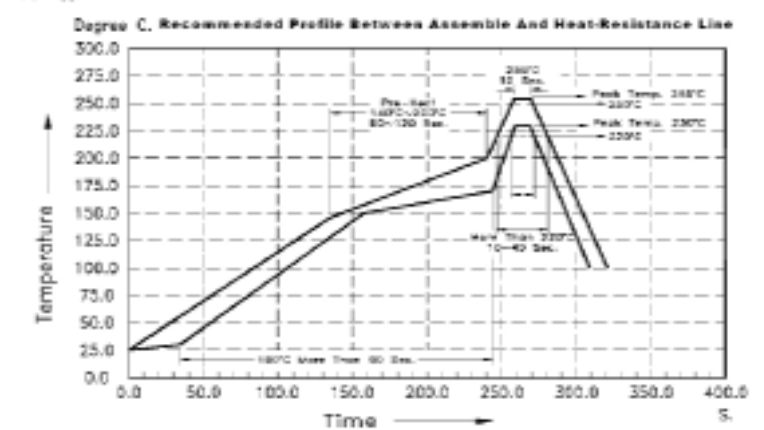


ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

(1) Suggestion IR Reflow Profile For Normal Process



(2) Suggestion IR Reflow Profile For Pb Free Process



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SCALE: 20.000 ALL DIM'S IN: MM (INCHES)	DRAWING NUMBER C-17231	REV A
TOLERANCES: UNLESS OTHERWISE SPECIFIED FRACTIONS: $\pm 1/64$ DECIMALS (.XX): $\pm .01$ DECIMALS (.XXX): $\pm .005$ DECIMALS (.XXXX): $\pm .0005$ ANGLES: $\pm 1^\circ$	TITLE SMT 0603 InGaN BLUE LED	
FINISH:	MATERIAL	
FSCM 83330	Dialight 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727	
	SHEET 1 OF 1	FAMILY TABLE: