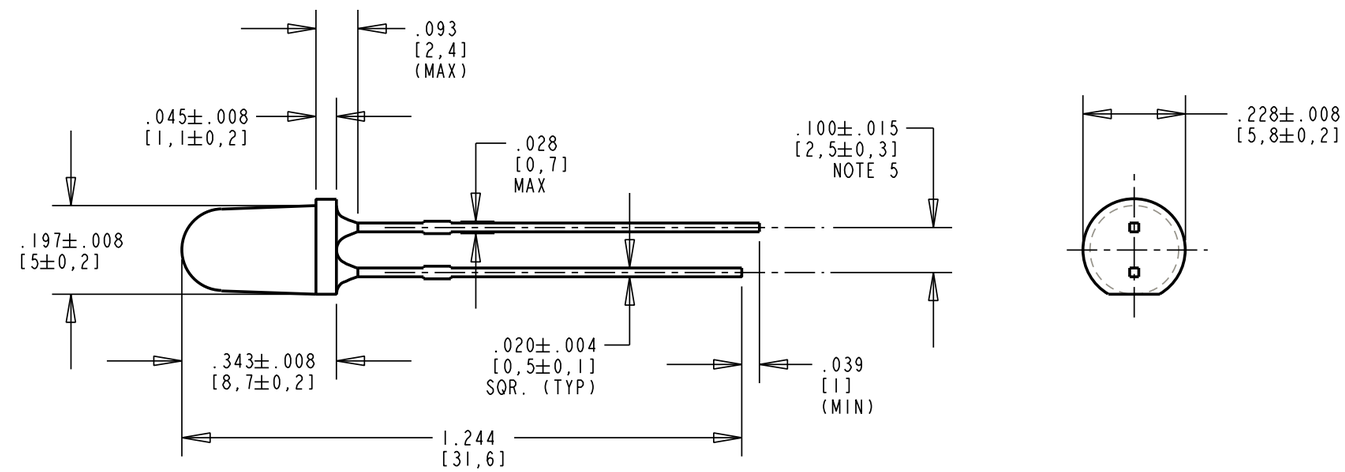
REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	———	NEW RELEASE	TC			

OPERATING CHARACTERISTICS AT 25° C AMBIENT

LED CHARACTERISTICS	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
FORWARD VOLTAGE		2.15	2.6	V	I_F = 20 mA
REVERSE VOLTAGE	5	20		V	I_R = 100μA
LUMINOUS INTENSITY	1650*		6300*	mcd	I_F = 20 mA
CAPACITANCE		40		pF	V_F = 0; f=1 MHz
PEAK WAVELENGTH		594		nm	I_F = 20 mA
DOMINANT WAVELENGTH		592		nm	I_F = 20 mA
VIEWING ANGLE (2 Θ 1/2)		30		deg.	
SPECTRAL HALFWIDTH		17		nm	I_F = 20 mA

ABSOLUTE MAXIMUM RATINGS AT 25° C AMBIENT		UNITS
PEAK FORWARD CURRENT	70	mA
AVERAGE FORWARD CURRENT (@ I_{PEAK} = 100 mA; f ≥ 1 KHz)	30	mA
DC FORWARD CURRENT	50	mA
DERATE LINEARLY FROM 50°C	0.7	mA/°C
TRANSIENT FORWARD CURRENT (10μs PULSE)	500	mA
SOLDERING TEMPERATURE, 5 SEC., 1/16" FROM BASE	260	°C
OPERATING TEMPERATURE	-40 TO +100	°C
STORAGE TEMPERATURE	-40 TO +120	°C



NOTES:

1. EPOXY COLOR: CLEAR NON-DIFFUSED.
2. DIE: TS AlInGaP, AMBER.
3. SOLDER ADHERANCE: BOTH LEADS PER MIL. STD. 202E, METHOD 208C, EXCEPT STEAM AGING.
4. LEAD SPACING MEASURED NEAR EPOXY PACKAGE.
5. LEDS TO BE PACKAGED IN BULK
6. PACKAGE TO HAVE LABEL SHOWING DIALIGHT PART NUMBER, QTY PER BAG, DATE CODE, COUNTRY OF ORIGIN, AND INTENSITY BIN, COLOR BIN AND LOT NUMBER.
7. * THESE NUMBERS REFLECT 15% TOLERANCE IN BINNING. WITHOUT THE 15% TOLERANCE THE MINIMUM IS 1900cd AND MAX. 5500cd.
8. DIALIGHT PART NUMBER: 521-9829F
9. PART NUMBER WITH "F" SUFFIX ENDING IS RoHS COMPLIANT. THE BAG PACKAGING IS MARKED WITH "RoHS COMPLIANT" LABEL OR EQUIVALENT MARKINGS. PART CAN BE WAVE SOLDERED, DIP SOLDERED OR HAND SOLDERED USING TYPICAL LEAD-FREE SOLDERING PROCESS WITH MAX. 260°C TEMPERATURE FOR 5 SEC.´

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SCALE: DRAWING SCALE
ALL DIM'S IN: INCHES (MM)

TOLERANCES:
UNLESS OTHERWISE SPECIFIED
FRACTIONS: ±1/64
DECIMALS (.XX): ±.01
DECIMALS (.XXX): ±.005
DECIMALS (.XXXX): ±.0005
ANGLES: ±1°

FINISH:

FSCM 83330

DRAWING NUMBER: C-17431
REV: A

TITLE: LAMP

MATERIAL:

Dialight
1501 ROUTE 34 SOUTH
FARMINGDALE, NJ 07727

SHEET 1 OF 1
FAMILY TABLE: