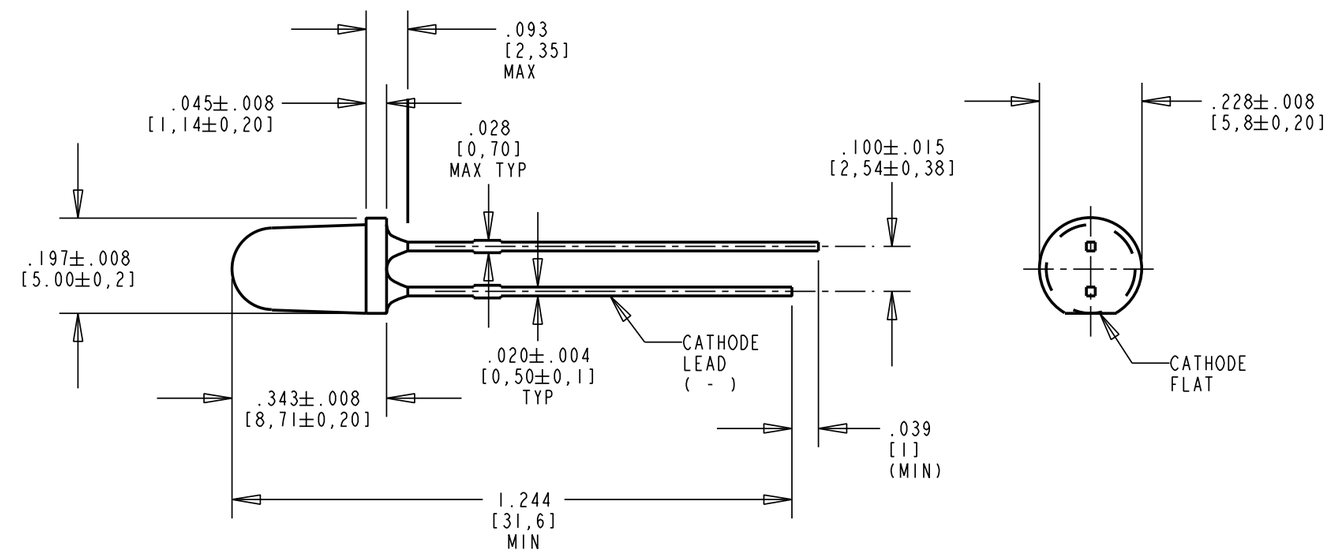
REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	———	NEW RELEASE	TWC			

OPERATING CHARACTERISTICS AT 25° C AMBIENT

LED CHARACTERISTICS	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
FORWARD VOLTAGE		2.00	2.6	V	I_F = 20 mA
REVERSE VOLTAGE	5	20		V	I_R = 100μA
LUMINOUS INTENSITY	1900		5500	mcd	I_F = 20 mA
CAPACITANCE		40		pF	V_F = 0; f=1 MHz
PEAK WAVELENGTH		639		nm	I_F = 20 mA
DOMINANT WAVELENGTH		630		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 PULSED FORWARD CURRENT f ≥ 1KHz	100	mA
AVERAGE FORWARD CURRENT	30	mA
DC FORWARD CURRENT	50	mA
DERATE LINEARLY FROM 50°C	0.7	mA/°C
SOLDERING TEMPERATURE, 5 SEC., 1/16" FROM BASE	260	°C
OPERATING TEMPERATURE	-40 TO +100	°C
STORAGE TEMPERATURE	-40 TO +120	°C



RoHS Compliant 521-9820F

Part Numbers with the "F" suffix ending are RoHS Compliant.
Packaging is marked with "RoHS Compliant" label or equivalent markings.
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:
1. EPOXY COLOR: CLEAR NON-DIFFUSED.
2. DIE: TS AlInGaP, RED.
3. LEAD FINISH: RoHS COMPLIANT TIN (Sn), SILVER (Ag), COPPER (Cu).
4. SOLDER ADHERANCE: BOTH LEADS PER MIL. STD. 202E, METHOD 208C, EXCEPT STEAM AGING.
5. LEAD SPACING MEASURED NEAR EPOXY PACKAGE.
6. LEDS TO BE BULK PACKAGED 100 LEDS PER ANTI-STATIC BAG, WITH P/N INTENSITY BINS, COLOR BINS IF APPLICABLE, LOT NUMBER OR DATE 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.
8. DIALIGHT PART NUMBER 521-9820F.

ATTENTION:
OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

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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-17414
REV: A
TITLE: 5MM RED WC BULK PACKAGING RoHS COMPLIANT (Pb FREE)
MATERIAL:

Dialight
1501 ROUTE 34 SOUTH
FARMINGDALE, NJ 07727

SHEET 1 OF 1
FAMILY TABLE: