

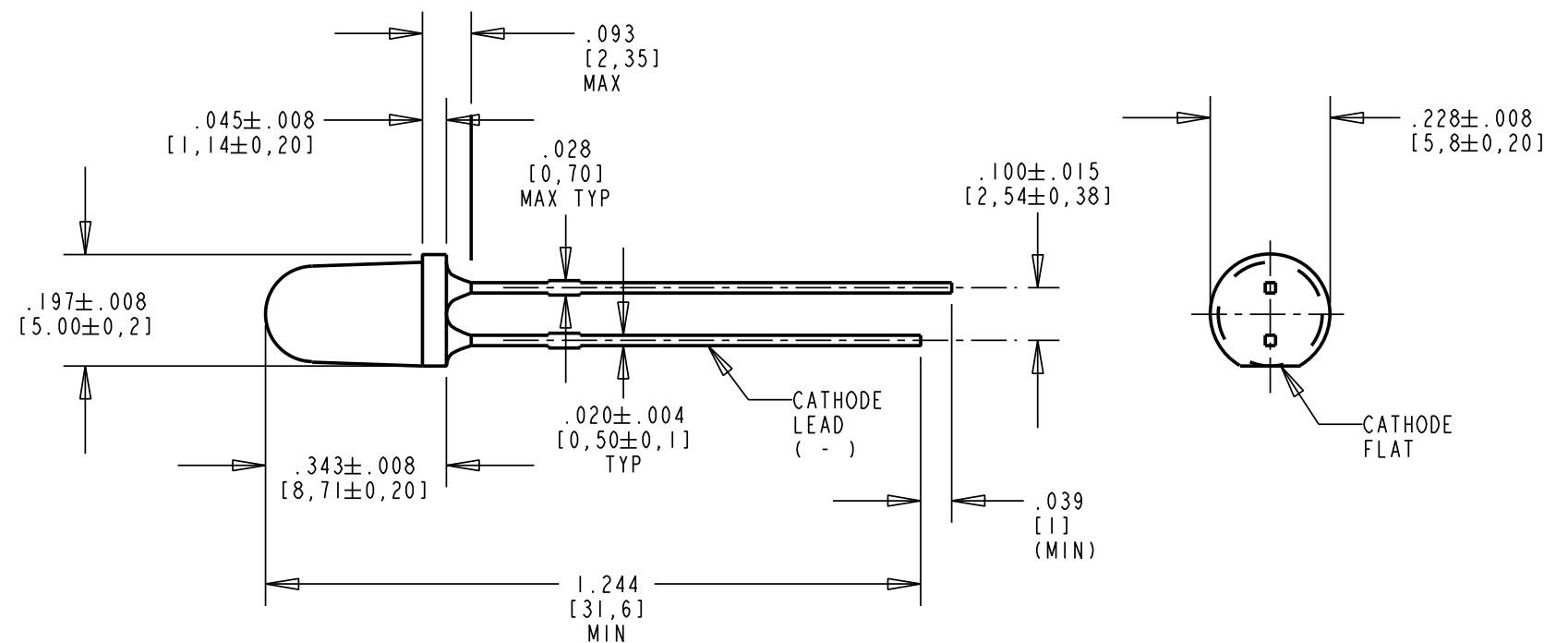
REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A		NEW RELEASE	TWC			

OPERATING CHARACTERISTICS AT 25° C AMBIENT

LED CHARACTERISTICS	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
FORWARD VOLTAGE		2.00	2.6	V	$I_F = 20 \text{ mA}$
REVERSE VOLTAGE	5	20		V	$I_R = 100 \mu\text{A}$
LUMINOUS INTENSITY	1900		5500	mc d	$I_F = 20 \text{ mA}$
CAPACITANCE		40		pF	$V_F = 0; f = 1 \text{ MHz}$
PEAK WAVELENGTH		639		nm	$I_F = 20 \text{ mA}$
DOMINANT WAVELENGTH		630		nm	$I_F = 20 \text{ mA}$
VIEWING ANGLE (2 $\theta$ 1/2)		30		deg.	
SPECTRAL HALFWIDTH		17		nm	$I_F = 20 \text{ mA}$

ABSOLUTE MAXIMUM RATINGS AT 25° C AMBIENT

	UNITS
PEAK PULSED FORWARD CURRENT $f \geq 1 \text{ kHz}$	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:

- EPOXY COLOR: CLEAR NON-DIFFUSED.
- DIE: TS AlInGaP, RED.
- LEAD FINISH: RoHS COMPLIANT TIN (Sn), SILVER (Ag), COPPER (Cu).
- SOLDER ADHERANCE: BOTH LEADS PER MIL. STD. 202E, METHOD 208C, EXCEPT STEAM AGING.
- LEAD SPACING MEASURED NEAR EPOXY PACKAGE.
- 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.
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING AND STORAGE IN ACCORDANCE WITH IPC-A-610.
- DIALIGHT PART NUMBER 521-9820F.



**ATTENTION:**  
OBSERVE PRECAUTIONS FOR  
HANDLING ELECTROSTATIC  
SENSITIVE DEVICES

THIS DRAWING AND THE CONTENTS HEREIN ARE CONFIDENTIAL AND THE SOLE PROPERTY OF DIALIGHT. REPRODUCTION OF THIS DRAWING OR CONSTRUCTION OF ANY PARTS WITHIN THIS DRAWING ARE FORBIDDEN WITHOUT THE WRITTEN CONSENT OF DIALIGHT.		
SCALE: DRAWING SCALE ALL DIM'S IN: INCHES (MM)	DRAWING NUMBER C-17414	REV A
TOLERANCES: UNLESS OTHERWISE SPECIFIED FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005 DECIMALS (.XXXX): ±.0005 ANGLES: ±1°	TITLE 5MM RED WC BULK PACKAGING RoHS COMPLIANT (Pb FREE)	
FINISH:	MATERIAL	
FSCM 83330	1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727	
	SHEET 1 OF 1	FAMILY TABLE: