

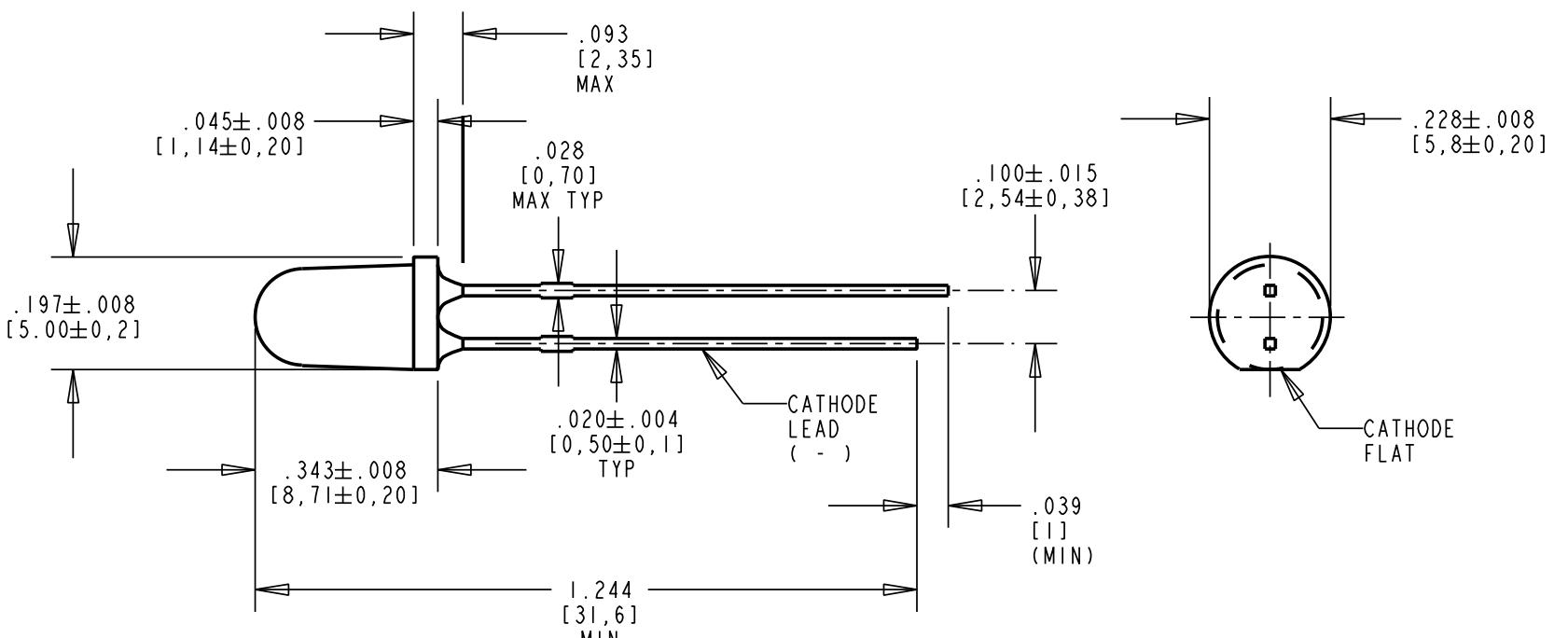
REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	—	NEW RELEASE	TWC			

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	mcad	$I_F = 20 \text{ mA}$
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 (2θ 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:

1. EPOXY COLOR: CLEAR NON-DIFFUSED.
2. DIE: TS AlInGaP, RED.
3. LEAD FINISH: RoHS COMPLIANT TIN (Sn), SILVER (Ag), COPPER (Cu).
4. SOLDER ADHERENCE: 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	DRAWING NUMBER	REV
ALL DIM'S IN: INCHES (MM)	C-17414	A
TOLERANCES: UNLESS OTHERWISE SPECIFIED		
FRACTIONS: ±1/64		
DECIMALS (.XX): ±.01		
DECIMALS (.XXX): ±.005		
DECIMALS (.XXXX): ±.0005		
ANGLES: ±1°		
FINISH:		
FSCM 83330	Dialight	1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727
SHEET 1 OF 1	FAMILY TABLE:	