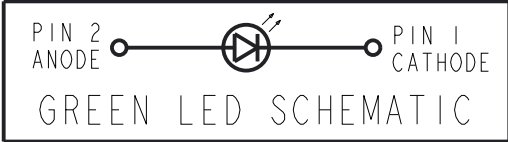
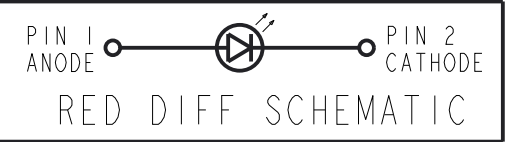
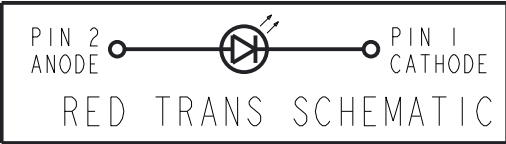
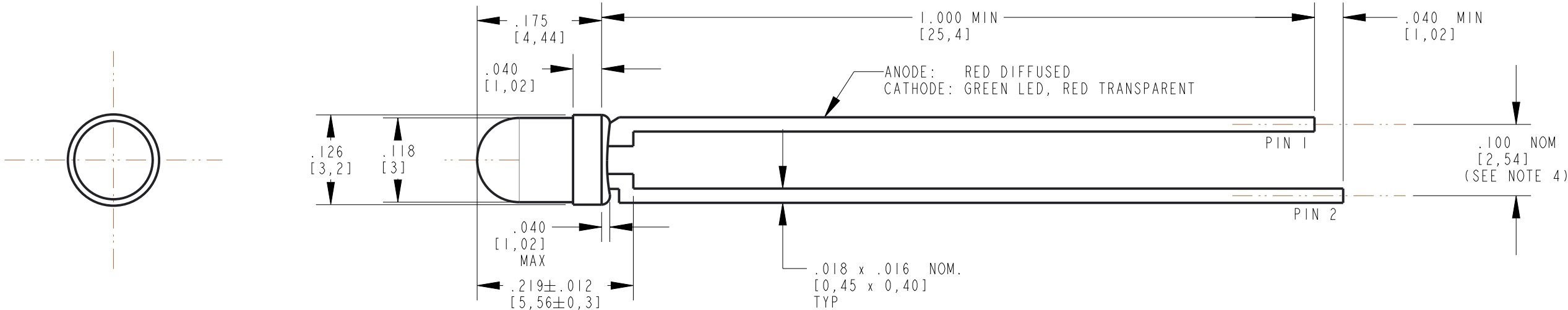


DIALIGHT PART NUMBER	LENS COLOR	PEAK EMISSION WAVELENGTH (nm) TYP	DOMINANT WAVELENGTH (nm) TYP	VIEWING ANGLE (°) 2 Θ 1/2	CAPACITANCE (pF) @ V _F =0; f = 1 MHz			LUMINOUS INTENSITY (mcd)		FORWARD VOLTAGE (V) @ I _F =20mA; 25°C	REVERSE CURRENT (μA); 25°C	
					TYP	I _F (mA)	MIN	TYP	MIN	TYP	MAX	
521-9636F	RED DIFF.	660	638	60	30	20	19	60	1.8	2.4	100 @ V _R =4V	
521-9637F	RED TRANS.	660	638	45	30	10	19	60	1.8	2.4	100 @ V _R =4V	
521-9638F	GREEN TRANS.	565	569	45	35	20	19	70	2.1	2.6	100 @ V _R =5V	

REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	—	NEW RELEASE	KLJ	NO		5-15-08
B	99469	521-9637F SPECS WERE UPDATED: LUM INT UPDATED, POWER DISSIPATION WAS 100, FORWARD CURRENT WAS 40, PEAK FORWARD CURRENT WAS 200, LINEAR DERATION WAS .5, OPERATING TEMP WAS -40 TO 100 STORAGE TEMP WAS -55 TO 100, SHORT LEAD WAS ANODE	LD	CS		11-18-22

RoHS COMPLIANT 521-963XF

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. DIE: AlGaAs FOR RED
GaP FOR GREEN
2. LEADS: 30.0μm-50.0μm TIN (Sn) OVER 20.0μm NICKEL (Ni) ON COPPER (Cu).
3. SOLDER ADHERANCE: BOTH LEADS PER MIL-STD-202E, METHOD 208C.
4. PIN NUMBERS FOR REFERENCE ONLY; DESIGNATION NON-EXISTENT ON PART.
5. LEAD SPACING MEASURED NEAR EPOXY PACKAGE.
6. BULK PACKAGING.
7. DIALIGHT PART NUMBERS: 521-9636F, 521-9637F, 521-9638F
8. THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT	RED DIFFUSED	RED TRANSPARENT	GREEN TRANSPARENT	UNITS
POWER DISSIPATION	100	75	100	mW
CONTINUOUS FORWARD CURRENT	40	30	30	mA
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH)	200	90	120	mA
DERATING LINEAR FROM 50°C	0.5	0.45	0.4	mA/°C
REVERSE VOLTAGE	4		5	V
SOLDERING TEMPERATURE (.063" FROM BODY)	260 FOR 5 SEC			°C
OPERATING TEMPERATURE	-40 TO +100	-40 TO +85	-55 TO +100	°C
STORAGE TEMPERATURE	-55 TO +100	-40 TO +100	-55 TO +100	°C



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

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SCALE: 6.000	DRAWING NUMBER	REV
ALL DIM'S: INCH (mm)	C-17614	B
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE	
FRACTIONS: ±1/64 DECIMALS (.XX): ±.02 DECIMALS (.XXX): ±.010 DECIMALS (.XXXX): ±.0005 ANGLES: ±1°	3mm LED RoHS COMPLIANT	
FINISH	MATERIAL	
FSCM 83330	Dialight 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 (732) 919-3119 www.dialight.com	
	SHEET 1 OF 1	FAMILY TABLE: