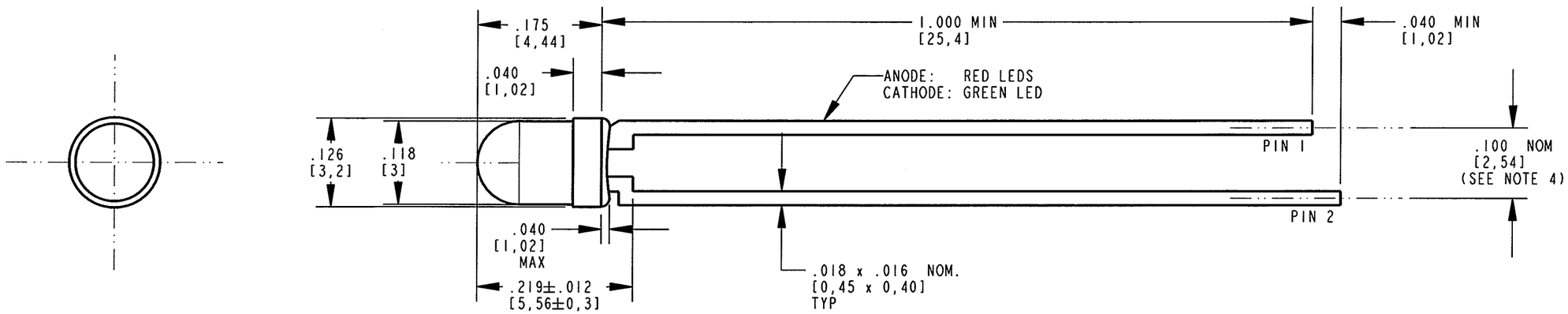
DIALIGHT PART NUMBER	LENS COLOR	PEAK EMISSION WAVELENGTH (nm) TYP	DOMINANT WAVELENGH (nm) TYP	VIEWING ANGLE (°) 2 θ 1/2	CAPACITANCE (pF) @ V_F=0; f = 1 MHz	LUMINOUS INTENSITY (mcd) @ I_F=20mA; 25°C		FORWARD VOLTAGE (V) @ I_F=20mA; 25°C		REVERSE CURRENT (μA); 25°C
					TYP	MIN	TYP	MIN	TYP	MAX
521-9636F	RED DIFF.	660	638	60	30	19	60	1.8	2.4	100 @ V_R=4V
521-9637F	RED TRANS.	660	638	45	30	40	135	1.8	2.4	100 @ V_R=4V
521-9638F	GREEN TRANS.	565	569	45	35	19	70	2.1	2.6	100 @ V_R=5V

REV	ECN NO	REVISIONS	DRN	CKD	APR	DATE
A	——	NEW RELEASE	KLJ	N.D.	[illegible]	5-15-08

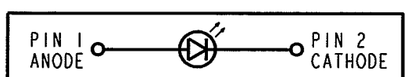
RoHS COMPLIANT 521-963XF

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.

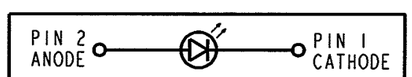


NOTES:

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.



RED LED SCHEMATIC



GREEN LED SCHEMATIC

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

ATTENTION:
OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

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SCALE: 6.000
ALL DIM'S IN: INCHES (MM)
TOLERANCES: UNLESS OTHERWISE SPECIFIED
FRACTIONS: ±1/64
DECIMALS (.XX): ±.02
DECIMALS (.XXX): ±.010
DECIMALS (.XXXX): ±.0005
ANGLES: ±1°
FINISH:
FSCM 83330

DRAWING NUMBER: C-17614
REV: A
TITLE: 3mm LED RoHS COMPLIANT
MATERIAL:

Dialight
1501 ROUTE 34 SOUTH
FARMINGDALE, NJ 07727

SHEET 1 OF 1
FAMILY TABLE: