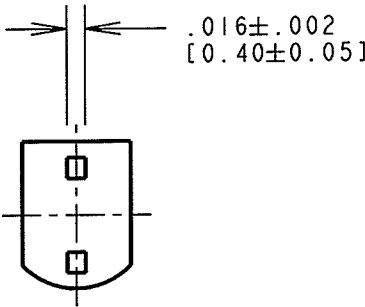
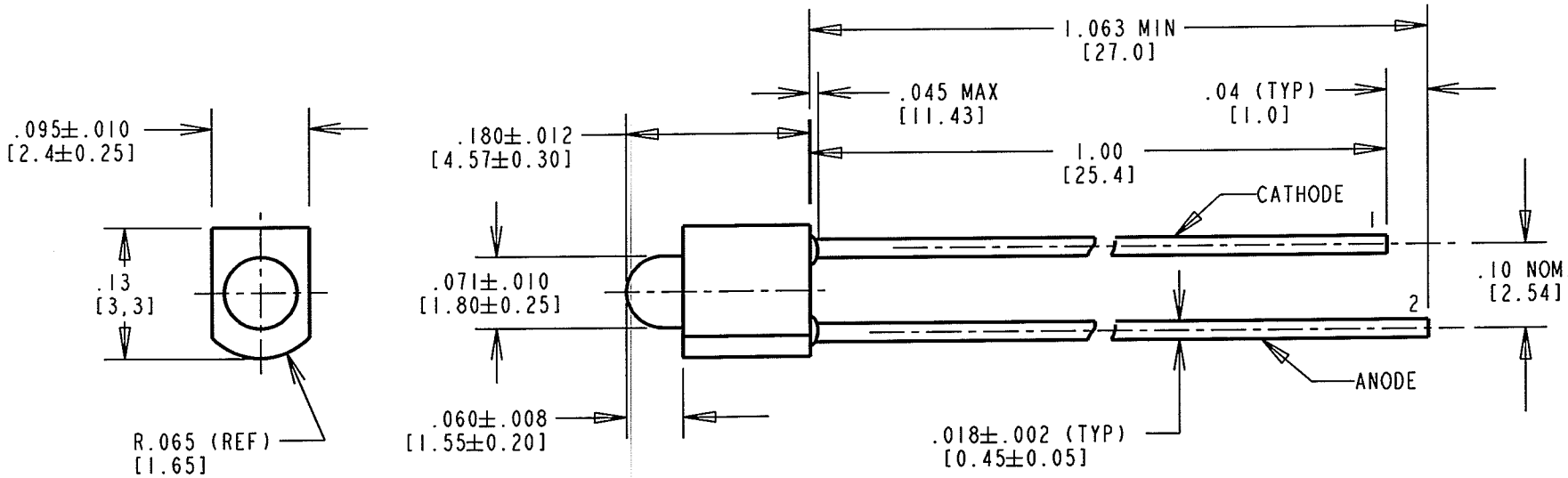


DIALIGHT P/N	LENS COLOR
521-8052F	InGaN GREEN WATER CLEAR
521-8053F	InGaN BLUE WATER CLEAR
521-8054F	TS AlInGaP YELLOW WATER CLEAR
521-8055F	HI-EFF. RED RED DIFFUSED
521-8056F	AlInGaP GREEN GREEN DIFFUSED
521-8057F	YELLOW DIFFUSED
521-8058F	AlInGaP ORANGE ORANGE DIFFUSED

NOTES:

1. THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.
2. LEAD SPACING IS MEASURED NEAR EPOXY PACKAGE.
3. PIN NUMBERS FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
4. DIALIGHT PART NUMBERS: 521-805XF.
5. TERMINATION FINISH: 60-100 μ in SILVER (Ag) OVER 30-50 μ in COPPER (Cu) OVER 10-30 μ in NICKEL (Ni) OVER 30 μ in COPPER (Cu) ON IRON (Fe) BASE METAL



PART NUMBER	PEAK EMISSION WAVELENGTH (nm)	DOMINANT WAVELENGTH (nm)			VIEWING ANGLE (°)	CAPACITANCE (pF) • V _F = 0V f = 1MHz	LUMINOUS INTENSITY (mcd) • I _F = 20 mA, 25°C		FORWARD VOLTAGE (V) • I _F = 20 mA, 25°C	
		MIN	TYP	MAX			TYP	MIN	TYP	MAX
521-8052F	518	520	525	530	30	40	1500	3200	3.5	4.2
521-8053F	468	465	470	475	30	40	240	600	3.5	4.2
521-8054F	591	587	590	593	30	40	680	1500	2.0	2.7
521-8055F	635	620	625	630	50±5	40	5.0	15	2.0	2.6
521-8056F	575	565	568	571	50±5	40	6.5	40	2.0	2.4
521-8057F	585	585	588	591	50±5	15	5.0	15	2.0	2.6
521-8058F	615	607	610	613	50±5	40	8.5	29	2.1	2.6



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

RoHS Compliant 521-805XF

Part Numbers with the "F" suffix ending are RoHS Compliant.
Example: 521-8056F
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.

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT	521-							UNITS
	-8052F	-8053F	-8054F	-8055F	-8056F	-8057F	-8058F	
POWER DISSIPATION	126	135	130	100	75	60	60	mW
CONTINUOUS FORWARD CURRENT	30	30	50	30	30	20	20	mA
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH)	100	100	100	120	60	80	60	mA
DERATING LINEAR FROM 40°C	0.40	0.50	0.60	0.40	0.40	0.25	0.25	mA/°C
REVERSE VOLTAGE	5	5	5	5	5	5	5	V
SOLDERING TEMPERATURE (.157 in FROM BODY)	260 FOR 5 SECONDS							°C
OPERATING TEMPERATURE	-20 TO +80		-40 TO +80	-55 TO +100	-40 TO +80	-55 TO +100		°C
STORAGE TEMPERATURE	-30 TO +100		-55 TO +100				°C	

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-17502	REV B
TOLERANCES: UNLESS OTHERWISE SPECIFIED FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005 DECIMALS (.XXXX): ±.0005 ANGLES: ±1°	TITLE 1.8 mm LED	
FINISH:	MATERIAL	
FSCM 83330	Dialight 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727	
	SHEET 1 OF 1 FAMILY TABLE:	