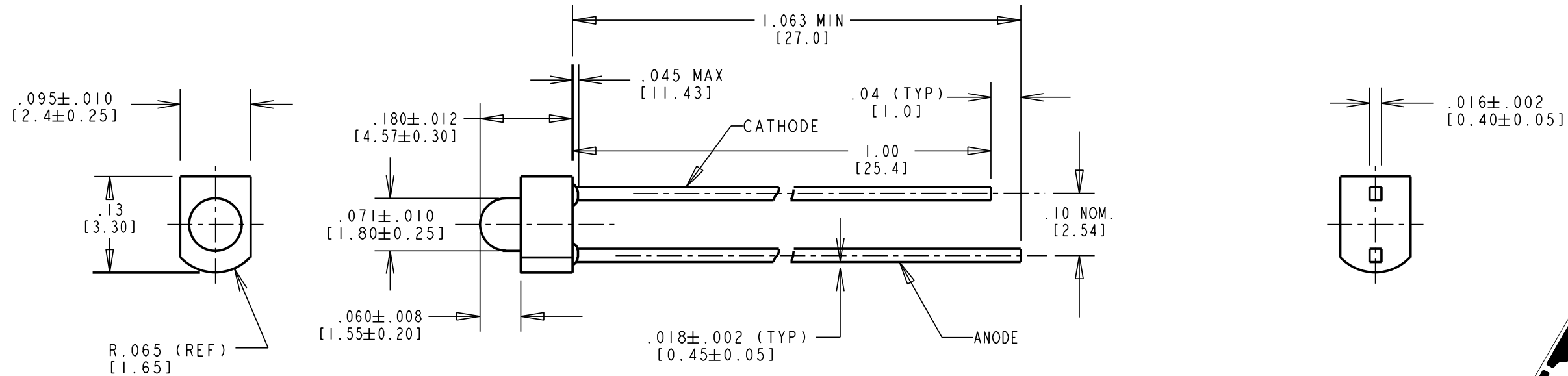


REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	—	NEW RELEASE	SM			

DIALIGHT P/N	LENS COLOR	REVISIONS			
		REV	ECN NO	DRN	DATE
521-8052F	InGaN GREEN WATER CLEAR	A	—	SM	6-07-07
521-8053F	InGaN BLUE WATER CLEAR	A	—	SM	6-07-07
521-8054F	TS AlInGaP YELLOW WATER CLEAR	A	—	SM	6-07-07
521-8055F	H1-EFF. RED RED DIFFUSED	A	—	SM	6-07-07
521-8056F	AlInGaP GREEN GREEN DIFFUSED	A	—	SM	6-07-07
521-8057F	YELLOW DIFFUSED	A	—	SM	6-07-07
521-8058F	AlInGaP ORANGE ORANGE DIFFUSED	A	—	SM	6-07-07

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.



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

PART NUMBER	PEAK EMISSION WAVELENGTH (nm)	DOMINANT WAVELENGTH (nm)			VIEWING ANGLE (°)	CAPACITANCE (pF)*V <sub>F</sub> =0V f=1MHz	LUMINOUS INTENSITY (mcd)*I <sub>F</sub> =20 mA, 25°C			FORWARD VOLTAGE (V)*I <sub>F</sub> =20 mA, 25°C	
		MIN	TYP	MAX			TYP	MIN	TYP	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	

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°C FOR 5 SECONDS							°C
OPERATING TEMPERATURE	-20°C TO +80°C	-40°C TO +80°C	-55°C TO +100°C	-40°C TO +80°C	-55°C TO +100°C	-55°C TO +100°C		°C
STORAGE TEMPERATURE	-30°C TO +100°C		-55°C TO +100°C					°C

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SCALE: DRAWING SCALE ALL DIM'S IN: INCHES (MM)	DRAWING NUMBER C-17502	REV A
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE 1.8 mm LED	
FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005 DECIMALS (.XXXX): ±.0005 ANGLES: ±1°	MATERIAL	
FINISH:	Dialight 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727	
FSCM 83330	SHEET 1 OF 1 FAMILY TABLE:	