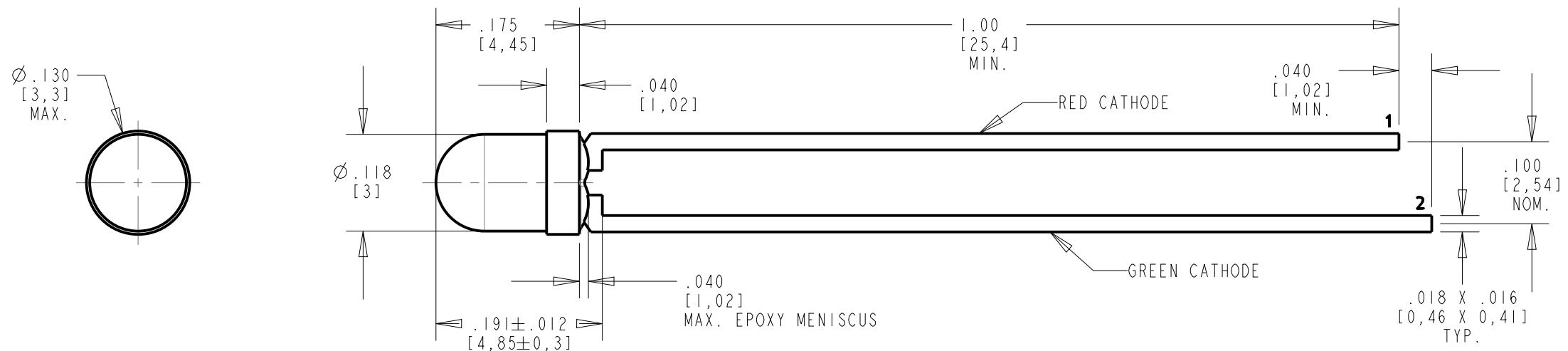


DIALIGHT PART NUMBER	LED COLOR
521-8416F	RED/GREEN

REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	—	NEW RELEASE	VP	JTD	NO	11-11-15

### RoHS COMPLIANT 521-8416F

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:

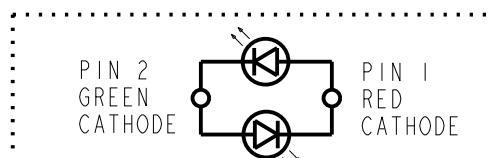
1. LENS COLOR: WHITE DIFFUSED
2. LEAD SPACING MEASURED NEAR EPOXY PACKAGE.
3. PIN NUMBERS FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
4. DIALIGHT PART NUMBER: 521-8416F
5. THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.
6. REVERSE VOLTAGE( $V_R$ ) CONDITION APPLIED FOR  $I_R$  TEST ONLY. THE DEVICE IS NOT DESIGNED FOR REVERSE OPERATION.

OPERATING CHARACTERISTICS AT 25°C AMBIENT												
LED COLOR	PEAK WAVELENGTH (nm)	DOMINANT WAVELENGTH (nm)			LUMINOUS INTENSITY (mcd) @ $I=2\text{mA}$			FORWARD VOLTAGE (V) @ $I=20\text{mA}$			REVERSE CURRENT ( $\mu\text{A}$ ) $V_R = 5\text{V}$ NOTE 6	VIEWING ANGLE (DEGREES)
		TYP	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	
RED	630		621		5.0	13	21		2.0		100	100
GREEN	565		569		5.0	13	21		2.1		100	100

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT			VALUE	UNITS
POWER DISSIPATION			100	mW
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1ms PULSE WIDTH)			90	mA
CONTINUOUS FORWARD CURRENT			30	mA
LINEAR DERATING FROM 50°C			0.4	mA/°C
LEAD SOLDERING TEMPERATURE (.079" [2.0mm] FROM BODY) FOR 5 SEC.			260	°C
OPERATING TEMPERATURE			-30 TO +80	°C
STORAGE TEMPERATURE			-40 TO +100	°C



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



**LED SCHEMATIC**

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.	DRAWING NUMBER
SCALE: 6.000	C-18230
ALL DIM'S IN: INCHES (MM)	A
TOLERANCES: UNLESS OTHERWISE SPECIFIED	
FRACTIONS: ±1/64	
DECIMALS (.XX): ±.020	
DECIMALS (.XXX): ±.010	
ANGLES: ±1°	
FINISH:	
FSCM 83330	
SHEET 1 OF 1	FAMILY TABLE:

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FARMINGDALE, NJ 07727