

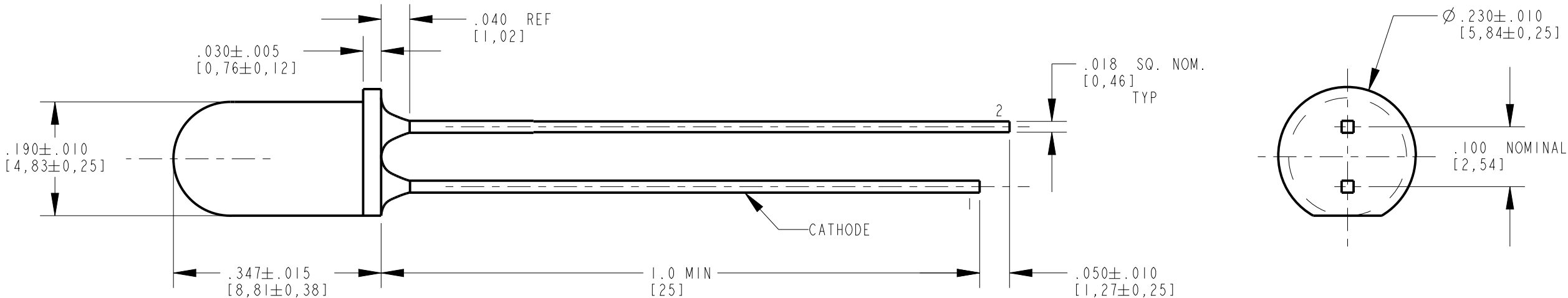
| DIALIGHT<br>PART NUMBER | LED & LENS<br>COLOR |
|-------------------------|---------------------|
| 521-9251F               | GREEN               |

Note: Part Number in Tape and Reel Packaging  
is 521-9603F

RoHS COMPLIANT 521-9251F

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.

| REV | ECN NO | REVISIONS                                             | DRN | CKD  | APP  | DATE     |
|-----|--------|-------------------------------------------------------|-----|------|------|----------|
| A   | —      | NEW RELEASE                                           | KLJ | N.O. | MES  | 10-31-08 |
| B   | —      | "TINTED" EPOXY PACKAGE WAS<br>"WATER CLEAR" IN ERROR. | KLJ | N.O. | MES  | 11-15-09 |
| C   | —      | REMOVED 5219247F                                      | WFB | JTD  | N.O. | 6-3-14   |



| OPERATING CHARACTERISTICS AT 25°C AMBIENT |                                                        |     |                                                   |     |                            |                           |
|-------------------------------------------|--------------------------------------------------------|-----|---------------------------------------------------|-----|----------------------------|---------------------------|
| LED<br>COLOR                              | LUMINOUS INTENSITY<br>@I <sub>F</sub> = 10 mA<br>(mcd) |     | FORWARD VOLTAGE<br>@I <sub>F</sub> = 10 mA<br>(V) |     | PEAK<br>WAVELENGTH<br>(nm) | VIEWING<br>ANGLE<br>(DEG) |
|                                           | MIN                                                    | TYP | TYP                                               | MAX | TYP                        | TYP                       |
| GREEN                                     | 25                                                     | 70  | 2.3                                               | 3.0 | 565                        | 24                        |



ATTENTION:  
OBSERVE PRECAUTIONS FOR  
HANDLING ELECTROSTATIC  
SENSITIVE DEVICES

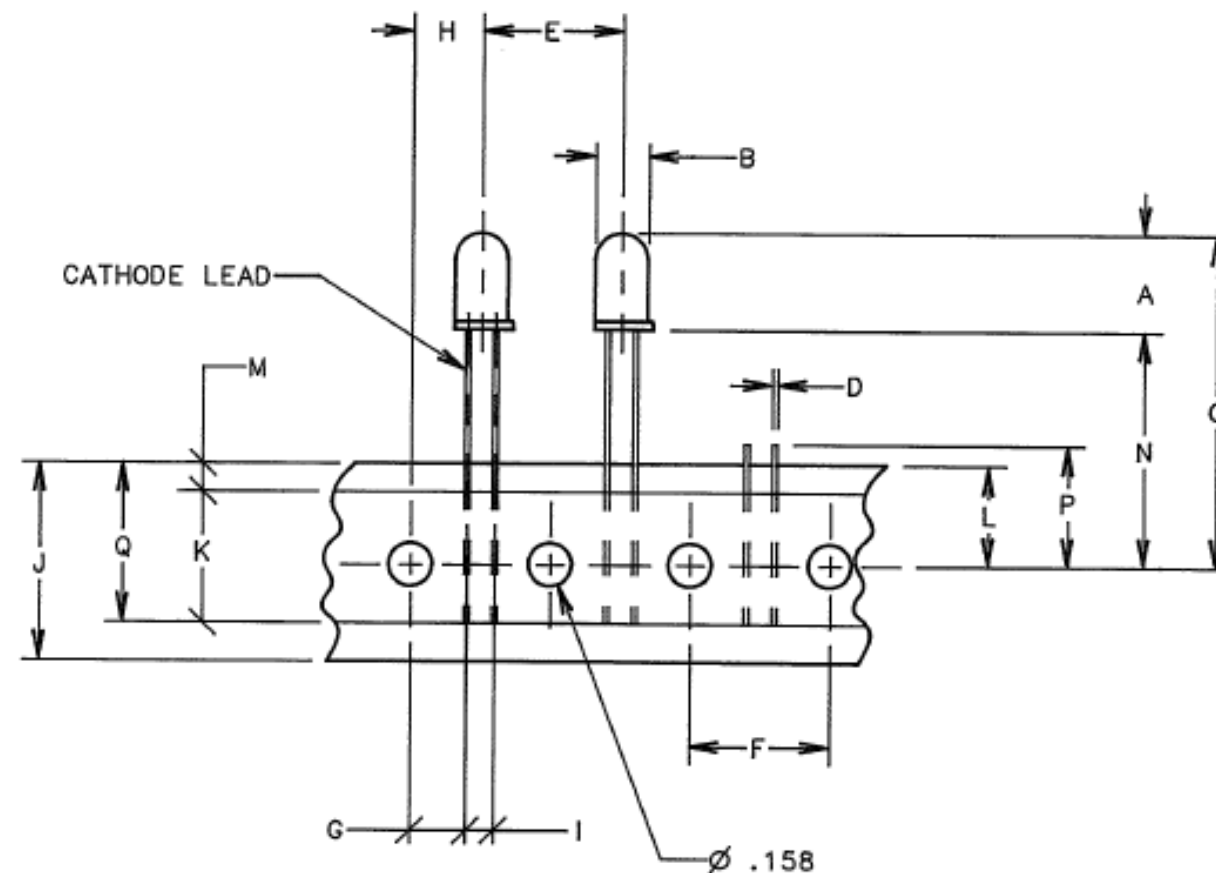
| ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT          | GREEN       | UNITS |
|---------------------------------------------------|-------------|-------|
| POWER DISSIPATION                                 | 135         | mW    |
| DC CURRENT                                        | 30          | mA    |
| PEAK OPERATING FORWARD CURRENT                    | 90          | mA    |
| PEAK TRANSIENT FORWARD CURRENT (10μs PULSE WIDTH) | 500         | mA    |
| DERATE LINEARLY FROM 25°C                         | 0.4         | mA/°C |
| REVERSE VOLTAGE (I <sub>R</sub> =100 μA)          | 5           | V     |
| STORAGE TEMPERATURE                               | -55 TO +100 | °C    |
| OPERATING TEMPERATURE                             | -20 TO +100 | °C    |
| SOLDERING TEMPERATURE, 1/16" FROM BODY FOR 5 SEC  | 260         | °C    |

NOTES:

- LENS COLOR: TINTED, NON-DIFFUSED
- LEAD SPACING MEASURED NEAR EPOXY PACKAGE.
- PIN NUMBERS FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
- DIALIGHT PART NUMBER:521-9251F.
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.

|                                                                                                                                                                                                                               |                                                                                       |                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------|
| 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: 3.000                                                                                                                                                                                                                  | DRAWING NUMBER<br>C-17674                                                             | REV<br>C                                     |
| ALL DIM'S IN: INCHES (MM)                                                                                                                                                                                                     |                                                                                       |                                              |
| TOLERANCES:<br>UNLESS OTHERWISE SPECIFIED                                                                                                                                                                                     | TITLE Ø5mm TINTED, NON-DIFFUSED LED<br>RoHS COMPLIANT                                 |                                              |
| FRACTIONS: ±1/64<br>DECIMALS (.XX): ±.01<br>DECIMALS (.XXX): ±.005<br>DECIMALS (.XXXX): ±.0005<br>ANGLES: ±1°                                                                                                                 |                                                                                       |                                              |
| FINISH:                                                                                                                                                                                                                       | MATERIAL                                                                              |                                              |
| FSCM 83330                                                                                                                                                                                                                    |  | 1501 ROUTE 34 SOUTH<br>FARMINGDALE, NJ 07727 |
|                                                                                                                                                                                                                               |                                                                                       | SHEET 1 OF 1 FAMILY TABLE:                   |

| ITEM                                 | SYMBOL | DIMENSION             |
|--------------------------------------|--------|-----------------------|
| BODY HEIGHT                          | A      | 0.347 (REF)           |
| BODY DIAMETER                        | B      | 0.185 (REF)           |
| COMPONENT HEIGHT                     | C      | 1.189 (MAX)           |
| LEAD WIRE THICKNESS                  | D      | 0.018 (REF)           |
| PITCH OF COMPONENT                   | E      | $\frac{0.539}{0.461}$ |
| FEED HOLE PITCH                      | F      | $\frac{0.508}{0.492}$ |
| FEED HOLE CENTER TO LEAD CENTER      | G      | $\frac{0.179}{0.124}$ |
| HOLE CENTER TO COMPONENT CENTER      | H      | $\frac{0.289}{0.211}$ |
| LEAD TO LEAD DISTANCE                | I      | $\frac{0.213}{0.193}$ |
| TAPE WIDTH                           | J      | $\frac{0.728}{0.689}$ |
| HOLD DOWN TAPE WIDTH                 | K      | $\frac{0.602}{0.579}$ |
| HOLE POSITION                        | L      | $\frac{0.384}{0.335}$ |
| HOLD DOWN TAPE POSITION              | M      | 0.100 (MAX)           |
| HEIGHT OF COMPONENT FROM HOLE CENTER | N      | $\frac{0.827}{0.787}$ |
| FEED HOLE DIAMETER                   | O      | $\frac{0.165}{0.150}$ |
| LENGTH OF SNIPPED LEAD               | P      | 0.433 (MAX)           |
| LEAD LENGTH UNDER HOLD DOWN TAPE     | Q      | 0.571 (MIN)           |
| COMPONENT ALIGNMENT, FRONT-REAR      | —      | 0 ± 0.039             |
| TOTAL TAPE THICKNESS                 | —      | $\frac{0.035}{0.020}$ |


**NOTES:**

- LEDs TO BE PACKAGED ON TAPE AND REEL AS SHOWN ON DRAWING, 0.100 INCH STRAIGHT LEADS, 1300 PCS/REEL.
- LED REFERENCE ELECTRICAL AND OPTICAL SPECS: 521-9251F

# Mouser Electronics

Authorized Distributor

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[521-9603F](#)