

| DIALIGHT<br>PART NUMBER | LED & LENS COLOR                           | TEST<br>CONDITIONS    | OPERATING CHARACTERISTICS AT 25°C AMBIENT |     |                        |     |                         |      |                                |                            |                           |
|-------------------------|--------------------------------------------|-----------------------|-------------------------------------------|-----|------------------------|-----|-------------------------|------|--------------------------------|----------------------------|---------------------------|
|                         |                                            |                       | LUMINOUS<br>INTENSITY<br>(mcd)            |     | FORWARD VOLTAGE<br>(V) |     | FORWARD CURRENT<br>(mA) |      | DOMINANT<br>WAVELENGTH<br>(nm) | PEAK<br>WAVELENGTH<br>(nm) | VIEWING<br>ANGLE<br>(DEG) |
|                         |                                            |                       | MIN                                       | TYP | TYP                    | MAX | MIN                     | MAX  | TYP                            | TYP                        | TYP                       |
| 555-3001F               | RED, TINTED, DIFFUSED                      | I <sub>F</sub> = 10mA | 0.4                                       | 0.6 | 1.6                    | 2.0 | —                       | —    | 640                            | 655                        | 35                        |
| 555-3003F               | RED, TINTED, DIFFUSED, INT RES, 5V         | V <sub>F</sub> = 5V   | 1.0                                       | 2.5 | —                      | —   | 3.7                     | 8.70 | 640                            | 655                        | 35                        |
| 555-3007F               | RED, TINTED, DIFFUSED, INT RES, 5V         | V <sub>F</sub> = 5V   | 0.4                                       | 0.6 | —                      | —   | 2.2                     | 4.3  | 640                            | 655                        | 35                        |
| 555-3008F               | RED, TINTED, DIFFUSED, INT RES, 24V        | V <sub>F</sub> = 24V  | 0.4                                       | 0.6 | —                      | —   | 2.3                     | 4.1  | 640                            | 655                        | 35                        |
| 555-3009F               | RED, TINTED, DIFFUSED, INT RES, 5V         | V <sub>F</sub> = 5V   | 0.4                                       | 0.6 | —                      | —   | —                       | 2.6  | 640                            | 655                        | 35                        |
| 555-3301F               | HI. PERF. GREEN, TINTED, DIFFUSED          | I <sub>F</sub> = 10mA | 6.3                                       | 25  | 2.1                    | 2.7 | —                       | —    | 569                            | 565                        | 35                        |
| 555-3303F               | HI. PERF. GREEN, TINTED, DIFF, INT RES, 5V | V <sub>F</sub> = 5V   | 1.0                                       | 2.0 | —                      | —   | 3.3                     | 13.0 | 569                            | 565                        | 35                        |
| 555-3401F               | YELLOW, TINTED, DIFFUSED                   | I <sub>F</sub> = 10mA | 16                                        | 50  | 2.0                    | 2.4 | —                       | —    | 585                            | 583                        | 35                        |
| 555-3403F               | YELLOW, TINTED, DIFFUSED, INT RES, 5V      | V <sub>F</sub> = 5V   | 1.6                                       | 5.0 | —                      | —   | 3.5                     | 5.3  | 585                            | 583                        | 35                        |

| REV | ECN NO | REVISIONS                                   | DRN | CKD | APP | DATE     |
|-----|--------|---------------------------------------------|-----|-----|-----|----------|
| A   | —      | NEW RELEASE                                 | AJF | KLJ | NO  | 7-30-09  |
| B   | —      | CHANGED PRINTED LOGO<br>AND P/N TO RECESSED | RSK | WFB | NO  | 12-11-14 |

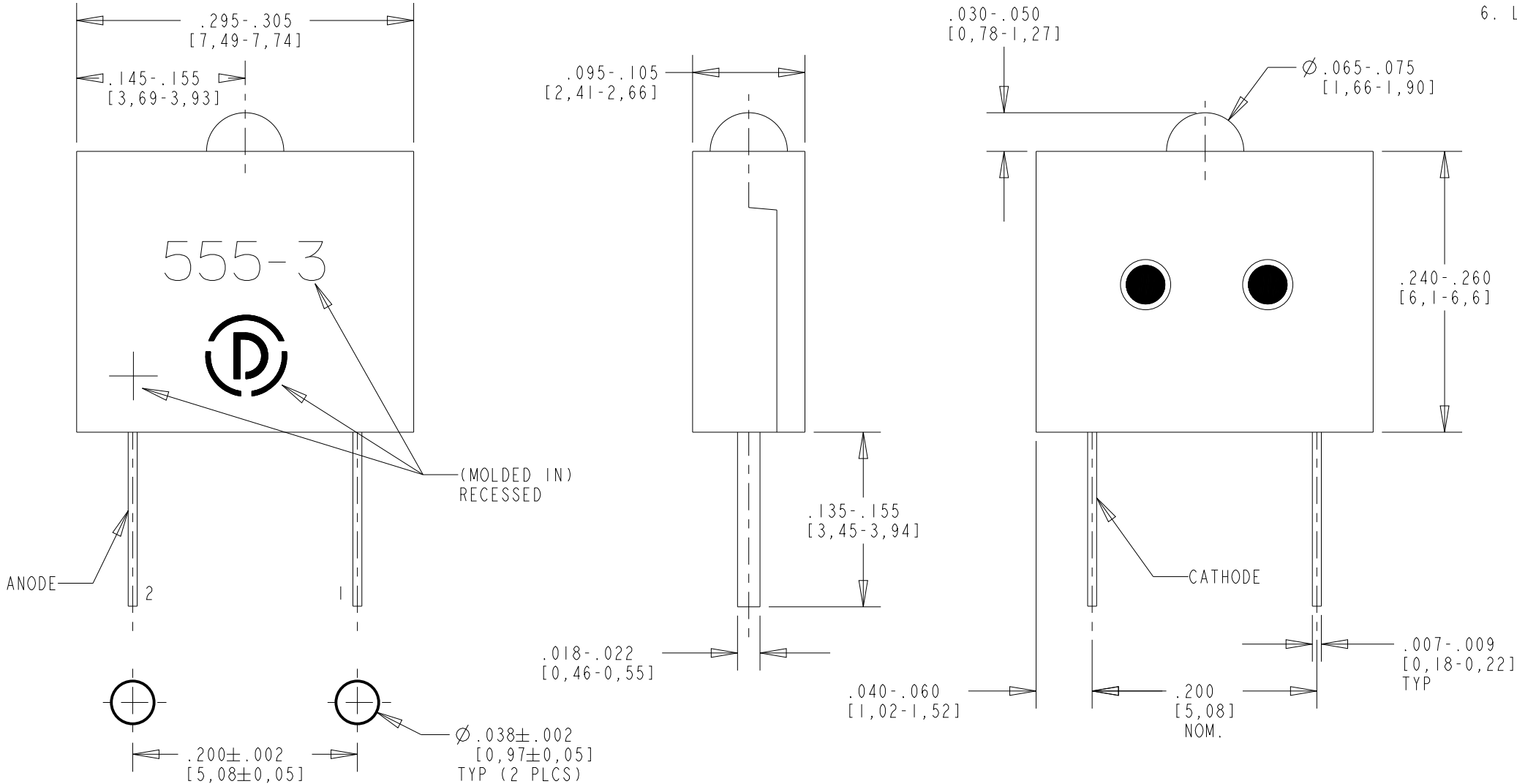
RoHS Compliant 555-3X0XF

Part Numbers with the "F" suffix ending are RoHS Compliant.  
Example: 555-3001F  
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<br>(AT 25°C AMBIENT)        | RED         | RED<br>INT RES, 5V | RED<br>INT RES, 24V | GREEN       | GREEN<br>INT RES, 5V | YELLOW      | YELLOW<br>INT RES, 5V | UNITS |
|------------------------------------------------------|-------------|--------------------|---------------------|-------------|----------------------|-------------|-----------------------|-------|
| DC FORWARD VOLTAGE                                   | —           | 6                  | 24                  | —           | 6                    | —           | 6                     | V     |
| DC FORWARD CURRENT                                   | 50          | —                  | —                   | 30          | —                    | 20          | —                     | mA    |
| REVERSE VOLTAGE (I <sub>R</sub> =100μA)              | 5           |                    |                     |             |                      |             |                       | V     |
| OPERATING TEMPERATURE                                | -55 to +100 | -40 to +85         | -40 to +85          | -40 to +100 | -20 to +85           | -55 to +100 | -40 to +85            | °C    |
| STORAGE TEMPERATURE                                  | -55 TO +100 |                    |                     |             |                      |             |                       | °C    |
| SOLDERING TEMPERATURE<br>(1/16" FROM BODY FOR 5 SEC) | 260         |                    |                     |             |                      |             |                       | °C    |

NOTES:

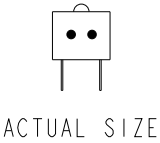
- PIN NUMBERS FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
- DIALIGHT PART NUMBERS: 555-3X0XF.
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.
- LED LEAD DIMENSIONS SHOWN ARE MEASURED AT HOUSING EXIT.
- LEADS TO FIT INTO HOLES SPACED AS PER PATTERN.
- LED LEADS - PURE Sn PLATING OVER OLIN 194 COPPER ALLOY BASE METAL



ATTENTION:  
OBSERVE PRECAUTIONS FOR  
HANDLING ELECTROSTATIC  
SENSITIVE DEVICES

|                                                                                                                                                                                                                               |                                                  |                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------------------|
| 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: 8.000<br>ALL DIM'S IN: INCHES (MM)                                                                                                                                                                                     | DRAWING NUMBER<br>C-17657                        | REV<br>B                                     |
| TOLERANCES:<br>UNLESS OTHERWISE SPECIFIED<br>FRACTIONS: ±1/64<br>DECIMALS (.XX): ±.02<br>DECIMALS (.XXX): ±.015                                                                                                               | TITLE Ø2mm SINGLE CBI TOP VIEW<br>RoHS COMPLIANT |                                              |
| ANGLES: ±3°<br>FINISH:                                                                                                                                                                                                        | MATERIAL                                         |                                              |
| FSCM 83330                                                                                                                                                                                                                    | Dialight                                         | 1501 ROUTE 34 SOUTH<br>FARMINGDALE, NJ 07727 |
| SHEET 1 OF 1 FAMILY TABLE:                                                                                                                                                                                                    |                                                  |                                              |

RECOMMENDED HOLE PATTERN



ACTUAL SIZE