

DIALIGHT PART NUMBER	OPERATING CHARACTERISTICS AT 25° C AMBIENT											TEST CONDITION
	FORWARD VOLTAGE / CURRENT			REVERSE VOLTAGE (V)	PEAK WAVELENGTH (nm)	DOMINANT WAVELENGTH (nm)			LUMINOUS INTENSITY (mcd)			
	MIN	TYP	MAX		TYP	MIN	TYP	MAX	MIN	TYP	MAX	
551-0209F	1.5 V	2.1 V	2.6 V	V _R =5V MIN @ 100 μ A	565	564	569	574	5.6	12.6	29	I _F =10 mA
551-0309F	—	2.1 V	2.6 V	V _R =5V MIN @ 100 μ A	590	585	590	595	3.7	5.6	30	I _F =10 mA
551-0409F	—	2.0 V	2.6 V	V _R =5V MIN @ 100 μ A	625	615	625	632	2.5	8.7	18	I _F =10 mA
551-0509F	—	10 mA	20 mA	V _R =5V MIN @ 100 μ A	635		623		8.7	29.0	—	V _F =5 V
551-0609F	—	10 mA	20 mA	V _R =5V MIN @ 100 μ A	565				5.6	19.0	—	V _F =5 V
551-0709F	—	10 mA	20 mA	V _R =5V MIN @ 100 μ A	585				3.7	12.6	—	V _F =5 V
551-1109F	—	1.8 V	2.2 V	V _R =5V MIN @ 50 μ A	635				1.0	1.8	—	I _F =2 mA
551-1209F	—	1.8 V	2.5 V	V _R =5V MIN @ 50 μ A	583				0.9	2.1	—	I _F =2 mA
551-1309F	—	1.8 V	2.2 V	V _R =5V MIN @ 50 μ A	565				1.0	2.1	—	I _F =2 mA
551-1409F	—	1.6 V	1.8 V	V _R =5V MIN @ 100 μ A	645				2.0	3.0	—	I _F =1 mA
551-1509F	—	2.1 V	2.8 V	V _R =5V MIN @ 100 μ A	565				10.0	32.0	—	I _F =10 mA
551-1609F	—	2.1 V	2.8 V	V _R =5V MIN @ 100 μ A	585				10.0	—	50.0	I _F =10 mA
551-1709F	—	2.0 V	2.8 V	V _R =5V MIN @ 100 μ A	635				8.7	29.0	—	I _F =10 mA
551-1809F	—	1.8 V	2.4 V	V _R =4V MIN @ 100 μ A	660				8.7	48.0	—	I _F =20 mA
551-2509F	1.5 V	1.9 V	2.4 V	V _R =5V MIN @ 100 μ A	600				3.4	7.0	10.8	I _F =10 mA
551-2809F	2.0 V	2.7 V	3.5 V	V _R =5V MIN @ 10 μ A	468				11.0	16.0	23.0	I _F =2 mA
	2.5 V	3.2 V	3.8 V						30	57	85	I _F =10 mA
551-3009F	—	2.0/2.1 V	2.8/2.8 V	V _R =5V MIN @ 100 μ A	630/565				1.2/1.5	5.6/8.7	30/30	I _F =10 mA
551-3109F	—	2.1/2.1 V	2.8/2.8 V	—	585/565				2.5/2.5	4.3/6.3	—	I _F =10 mA
551-3209F	—	2.0/2.1 V	2.8/2.8 V	—	630/585				1.7/1.7	5.6/5.6	—	I _F =20 mA
551-5909F	2.5 V	3.2 V	3.8 V	V _R =5V MIN @ 10 μ A	518				140	270	400	I _F =10 mA
551-6009F	—	3.5	4.0	V _R =5V MIN @ 100 μ A	—				400	1100	1900	I _F =20 mA
551-6109F	—	3.3 V	3.8 V	V _R =5V MIN @ 100 μ A	468				310	520	880	I _F =20 mA

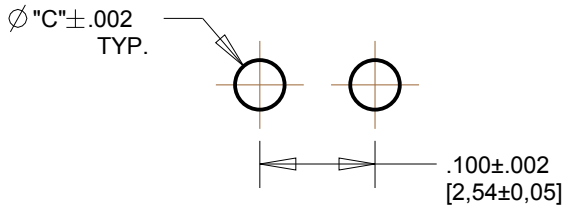
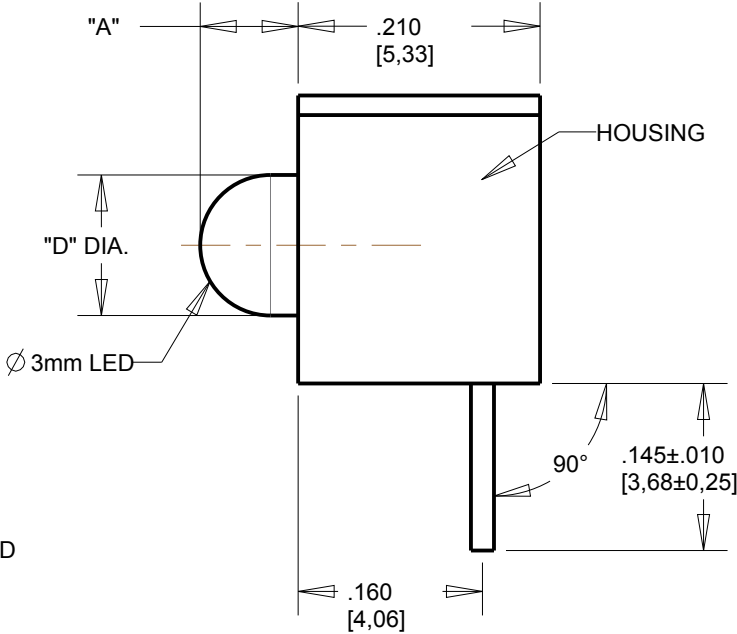
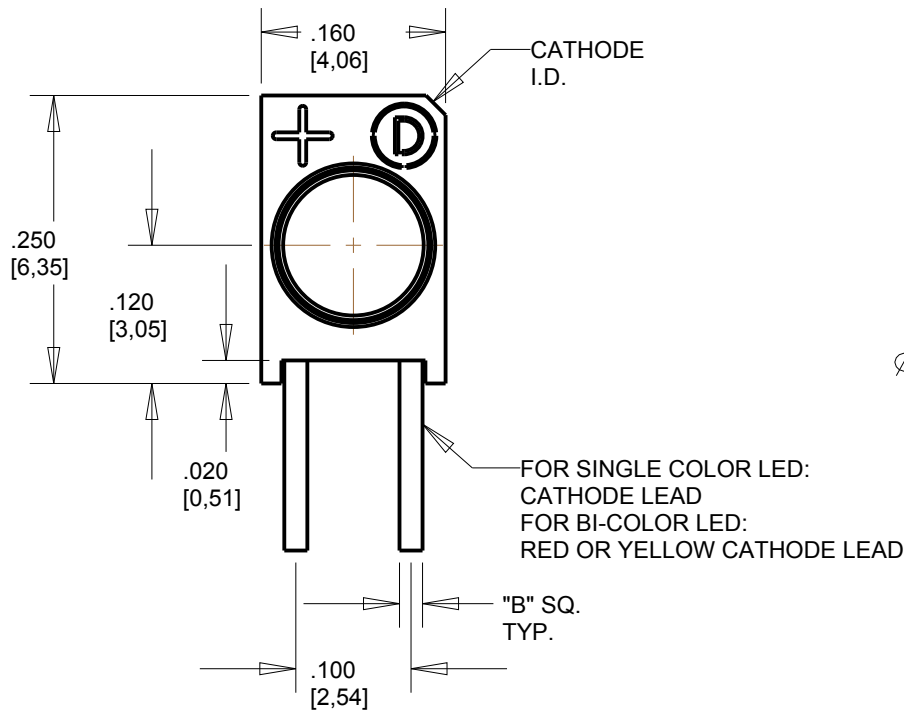
NOTES:

1. DIALIGHT PART NUMBER: 551-XX09F.
2. LED LEAD DIMENSIONS SHOWN ARE MEASURED AT HOUSING EXIT.
3. LEADS TO FIT INTO HOLES SPACED AS PER PATTERN.
4. PIN NUMBERS FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
5. THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.

REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	—	NEW RELEASE	TWC	TC	N.O.	8-29-05
B	—	ADDED P/N 551-2509F	TWC	—	—	—
C	—	UPDATED LED SPECS; ADDED DUAL DIMS.; (.XX) WAS .01 (.XXX) WAS ±.005; ADDED NOTES 2,3,4,& 5.	AJF	KLJ	NO	4-15-11
D	—	ADDED P/N 551-2809F	AJF	KLJ	NO	8-24-11
E	—	UPDATE SPECS FOR P/Ns 5512809F AND 5513009F, DELETE 5510809F	JTD	KLJ	NO	3-13-12
F	—	ADDED 551-5909F, 551-6009F 551-6109F & C.COOR.	VP	WFB	NO	7-8-15
G	—	UPDATED DIMENSION A,B,C & D FOR P/N 551-0209F/0309F/0409F. ALSO UPDATED LED SPECS	BP	—	NO	8-22-16
H	—	UPDATED SPECS OF PNs 551-0309F, 551-0409F ADDED DOMINANT WAVELENGTH SPECS	LD	—	NO	9-28-18

DIALIGHT PART NUMBER	LED COLOR	"A" DIMENSION	"B" DIMENSION	"C" DIMENSION	"D" DIMENSION
551-0209F	GREEN DIFFUSED	.085	.018x0.016	.040	.118±.008
551-0309F	YELLOW DIFFUSED	.085	.018x0.016	.040	.118±.008
551-0409F	RED DIFFUSED	.085	.018x0.016	.040	.118±.008
551-0509F	RED DIFFUSED, 5 V	.085	.018	.040	.115±.010
551-0609F	GREEN DIFFUSED, 5 V	.085	.018	.040	.115±.010
551-0709F	YELLOW DIFFUSED, 5 V	.085	.018	.040	.115±.010
551-1109F	2 mA RED DIFFUSED	.085	.018	.040	.115±.010
551-1209F	2 mA YELLOW DIFFUSED	.085	.018	.040	.115±.010
551-1309F	2 mA GREEN DIFFUSED	.085	.018	.040	.115±.010
551-1409F	1 mA RED WATER CLEAR	.085	.018	.040	.115±.010
551-1509F	GREEN TINTED NON-DIFFUSED	.085	.018	.040	.115±.010
551-1609F	YELLOW TINTED NON-DIFFUSED	.085	.018	.040	.115±.010
551-1709F	RED TINTED NON-DIFFUSED	.085	.018	.040	.115±.010
551-1809F	RED TINTED DIFFUSED	.085	.020	.043	.118±.010
551-2509F	ORANGE DIFFUSED	.085	.018	.040	.115±.010
551-2809F	BLUE NON-TINTED DIFFUSED	.085	.018	.040	.118±.010
551-3009F	RED/GREEN BI-COLOR	.085	.018 X .016	.040	.118±.010
551-3109F	YELLOW/GREEN BI-COLOR	.085	.020	.043	.118±.010
551-3209F	RED/YELLOW BI-COLOR	.085	.020	.043	.118±.010
551-5909F	GREEN DIFFUSED	.085	.018 X .016	.040	.118±.010
551-6009F	WHITE WATER CLEAR	.085	.018 X .016	.040	.118±.010
551-6109F	BLUE WATER CLEAR	.085	.018 X .016	.040	.118±.010

HUE BIN	CHROMATICITY COORDINATES FOR WHITE WATER CLEAR I _F = 20 mA				
A3	X	0.270	0.270	0.250	0.250
	Y	0.275	0.325	0.300	0.250
A4	X	0.270	0.250	0.250	0.270
	Y	0.275	0.250	0.200	0.225
B3	X	0.290	0.290	0.270	0.270
	Y	0.300	0.350	0.325	0.275
B4	X	0.290	0.270	0.270	0.290
	Y	0.300	0.275	0.225	0.250
C3	X	0.310	0.310	0.290	0.290
	Y	0.325	0.375	0.350	0.300
C4	X	0.310	0.290	0.290	0.310
	Y	0.325	0.300	0.250	0.275
D3	X	0.330	0.330	0.310	0.310
	Y	0.350	0.400	0.375	0.325
D4	X	0.330	0.310	0.310	0.330
	Y	0.350	0.325	0.275	0.300
COLOR COORDINATES MEASUREMENT ALLOWANCE ± 0.01					



RECOMMENDED HOLE PATTERN GAUGE

RoHS COMPLIANT 551-XX09F

Part Numbers with the "F" suffix ending are RoHS Compliant.
For example: 551-0209F
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.



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

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SCALE: 6.000 ALL DIM'S IN: INCHES (MM)	DRAWING NUMBER C-17296	REV G
TOLERANCES: UNLESS OTHERWISE SPECIFIED FRACTIONS: ± 1/64 DECIMALS (.XX): ± .02 DECIMALS (.XXX): ± .015 DECIMALS (.XXXX): ± .0005 ANGLES: ± 3°	TITLE Ø 3mm LED CBI RoHS COMPLIANT	MATERIAL
FINISH -	Dialight 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 (732) 919-3119 www.dialight.com	
FSCM 83330	SHEET 1 OF 1	FAMILY TABLE: