

DIALIGHT PART NUMBER	OPERATING CHARACTERISTICS AT 25° C AMBIENT								TEST CONDITION
	FORWARD VOLTAGE / CURRENT			REVERSE VOLTAGE (V)	PEAK WAVELENGTH (nm)	LUMINOUS INTENSITY (mcd)			
	MIN	TYP	MAX			TYP	MIN	TYP	
551-0209F	1.5 V	2.1 V	2.6 V	V _R =5V MIN @ 100μA	565	5.6	12.6	29	I _F =10 mA
551-0309F	—	2.1 V	2.6 V	V _R =5V MIN @ 100μA	585	3.7	8.7	30	I _F =10 mA
551-0409F	—	2.0 V	2.6 V	V _R =5V MIN @ 100μA	635	2.5	8.7	18	I _F =10 mA
551-0509F	—	10 mA	20 mA	V _R =5V MIN @ 100μA	635	8.7	29.0	—	V _F =5 V
551-0609F	—	10 mA	20 mA	V _R =5V MIN @ 100μA	565	5.6	19.0	—	V _F =5 V
551-0709F	—	10 mA	20 mA	V _R =5V MIN @ 100μA	585	3.7	12.6	—	V _F =5 V
551-1109F	—	1.8 V	2.2 V	V _R =5V MIN @ 50μA	635	1.0	1.8	—	I _F =2 mA
551-1209F	—	1.8 V	2.5 V	V _R =5V MIN @ 50μA	583	0.9	2.1	—	I _F =2 mA
551-1309F	—	1.8 V	2.2 V	V _R =5V MIN @ 50μA	565	1.0	2.1	—	I _F =2 mA
551-1409F	—	1.6 V	1.8 V	V _R =5V MIN @ 100μA	645	2.0	3.0	—	I _F =1 mA
551-1509F	—	2.1 V	2.8 V	V _R =5V MIN @ 100μA	565	10.0	32.0	—	I _F =10 mA
551-1609F	—	2.1 V	2.8 V	V _R =5V MIN @ 100μA	585	10.0	—	50.0	I _F =10 mA
551-1709F	—	2.0 V	2.8 V	V _R =5V MIN @ 100μA	635	8.7	29.0	—	I _F =10 mA
551-1809F	—	1.8 V	2.4 V	V _R =4V MIN @ 100μA	660	8.7	48.0	—	I _F =20 mA
551-2509F	1.5 V	1.9 V	2.4 V	V _R =5V MIN @ 100μA	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 @ 10μA	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 @ 100μA	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 @ 10μA	518	140	270	400	I _F =10 mA
551-6009F	—	3.5	4.0	V _R =5V MIN @ 100μA	—	400	1100	1900	I _F =20 mA
551-6109F	—	3.3 V	3.8 V	V _R =5V MIN @ 100μA	468	310	520	880	I _F =20 mA

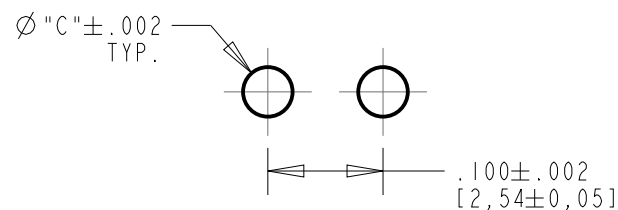
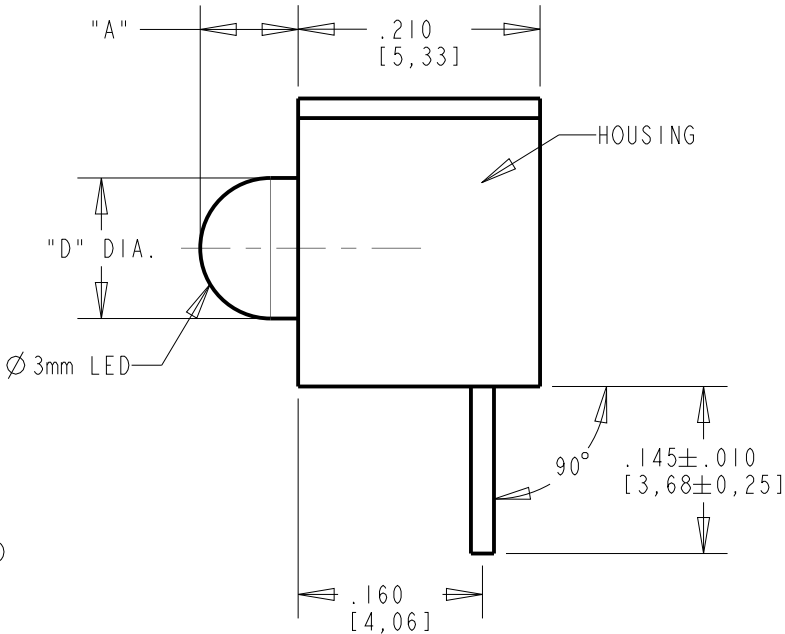
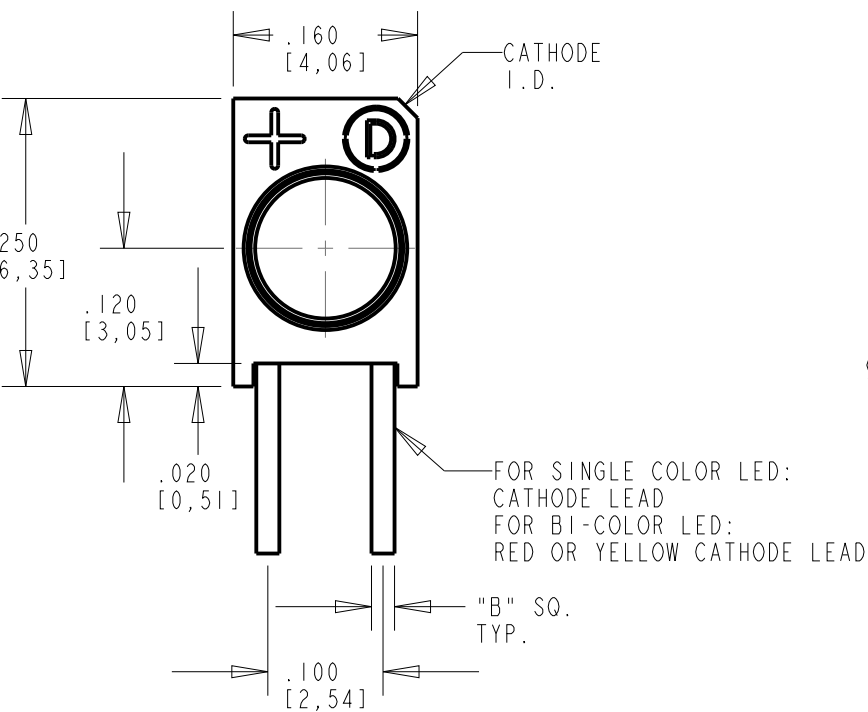
DIALIGHT PART NUMBER	LED COLOR	"A" DIMENSION	"B" DIMENSION	"C" DIMENSION	"D" DIMENSION
551-0209F	GREEN DIFFUSED	.085	.018x0.016	.040	.118±.008
551-0309F	YELLOW DIFFUSED	.085	.018x0.016	.040	.118±.008
551-0409F	RED DIFFUSED	.085	.018x0.016	.040	.118±.008
551-0509F	RED DIFFUSED, 5 V	.085	.018	.040	.115±.010
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

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

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					

NOTES:

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



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	DRAWING NUMBER	REV
ALL DIM'S IN: INCHES (MM)	C-17296	G
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE	Ø3mm LED CBI RoHS COMPLIANT
FRACTIONS: ±1/64 DECIMALS (.XX): ±.02 DECIMALS (.XXX): ±.015 DECIMALS (.XXXX): ±.0005 ANGLES: ±3°	MATERIAL	
FINISH:	Dialight	1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727
FSCM	83330	SHEET 1 OF 1 FAMILY TABLE:

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Dialight:

[551-5909F](#) [551-6109F](#) [551-6009F](#)