

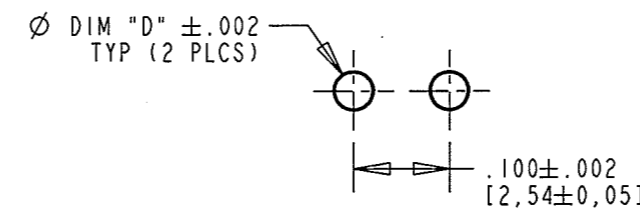
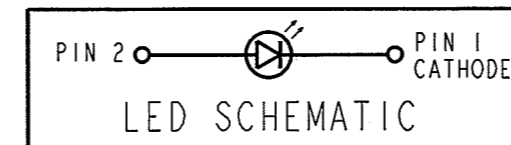
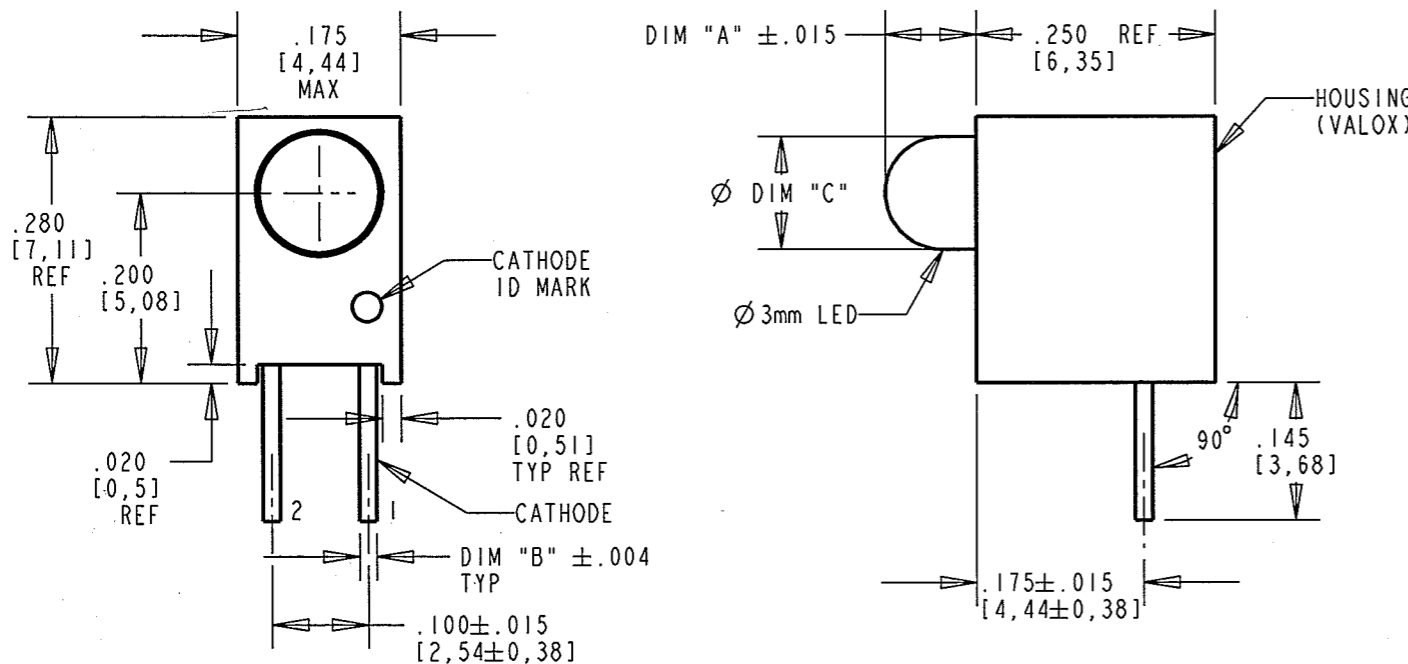
DIALIGHT PART NUMBER	LED COLOR	DIM "A"	DIM "B"	DIM "C"	DIM "D"	OPERATING CHARACTERISTICS AT 25°C AMBIENT									
						LUMINOUS INTENSITY TEST CONDITION	LUMINOUS INTENSITY (mcd)			FORWARD VOLTAGE / CURRENT TEST COND	FORWARD VOLTAGE / CURRENT		REVERSE CURRENT (μA)	PEAK WAVELENGTH (nm)	VIEWING ANGLE (DEG)
							MIN	TYP	MAX		TYP	MAX			
551-0207F	GREEN DIFFUSED	.105	.020 SQ.	.122±.008	.043	If = 10mA	5.6	16.0	—	If = 10mA	2.1 V	3.0 V	10	563	45
551-0307F	YELLOW DIFFUSED	.105	.020 SQ.	.122±.008	.043	If = 10mA	2.2	6.3	—	If = 10mA	2.1 V	3.0 V	10	585	45
551-0407F	RED DIFFUSED	.105	.020 SQ.	.122±.008	.043	If = 10mA	3.6	10	—	If = 10mA	2.0 V	3.0 V	10	650	45
551-0507F	RED DIFFUSED	.095	.018 x .016	.118±.010	.040	Vf = 5V	8.7	29	—	Vf = 5V	10 mA	20 mA	100	635	60
551-0607F	GREEN DIFFUSED	.095	.018 x .016	.118±.010	.040	Vf = 5V	5.6	19	—	Vf = 5V	10 mA	20 mA	100	565	60
551-0707F	YELLOW DIFFUSED	.095	.018 x .016	.118±.010	.040	Vf = 5V	3.7	12.6	—	Vf = 5V	10 mA	20 mA	100	585	60
551-0807F	BLUE NON-TINTED DIFF	.101	.020 SQ.	.110±.004	.043	If = 10mA	7.1	12.5	18	If = 10mA	3.5 V	4.1 V	10	428	70
551-1107F	RED DIFFUSED	.095	.018 x .016	.118±.010	.040	If = 2mA	1.0	1.6	—	If = 2mA	1.7 V	2.2 V	10	635	60
551-1207F	YELLOW DIFFUSED	.095	.018 x .016	.118±.010	.040	If = 2mA	1.0	1.6	—	If = 2mA	1.8 V	2.7 V	10	585	60
551-1307F	GREEN DIFFUSED	.095	.018 x .016	.118±.010	.040	If = 2mA	1.0	1.6	—	If = 2mA	1.9 V	2.2 V	10	565	60
551-1407F	AlGaAs RED WC	.095	.018 SQ.	.115±.010	.040	If = 1mA	2	3	—	If = 1mA	1.6 V	1.8 V	100	645	45
551-1507F	GREEN TINTED NON-DIFF	.095	.018 x .016	.118±.010	.040	If = 10mA	32	50	—	If = 20mA	2.1 V	2.8 V	100	565	45
551-1607F	YELLOW TINTED NON-DIFF	.095	.018 x .016	.118±.010	.040	If = 10mA	10	—	50	If = 20mA	2.1 V	2.8 V	100	585	45
551-1707F	RED TINTED NON-DIFF	.095	.018 x .016	.118±.010	.040	If = 10mA	8.7	29	—	If = 20mA	2.0 V	2.8 V	100	635	45
551-2507F	ORANGE DIFFUSED	.095	.018 SQ.	.115±.010	.040	If = 10mA	3.4	7.0	10.8	If = 10mA	1.9 V	2.4 V	100	600	60
551-5807F	AllnGaP YELLOW WC	.095	.018 x .016	.118±.010	.040	If = 20mA	180	320	—	If = 20mA	2.0 V	2.4 V	100	588	56
551-5907F	InGaN GREEN WC	.101	.020 SQ.	.110±.004	.043	If = 10mA	280	—	710	If = 10mA	3.0 V	3.7 V	10	523	30
551-6107F	InGaN BLUE WC	.095	.018 SQ.	.115±.010	.040	If = 20mA	110	—	310	If = 20mA	3.5 V	4.0 V	10	470	45

REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	—	NEW RELEASE	TWC	TC	N.O.	9-22-05
B	—	ADDED P/N 551-2507F	TWC	MES	N.O.	11-2-05
C	—	ADDED P/N'S 551-5807F, -5907F, -6107F; ADDED LED SCHEMATIC; ADDED NOTES 1, 2, AND 3; ADDED METRIC DIMS, UPDATED SPECS.	KLJ			12-4-08

PART NUMBER	ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT								
	POWER DISSIPATION	DC FORWARD VOLTAGE	CONT. FWD CURRENT	PEAK FWD CURRENT	LINEAR DERATION	REVERSE VOLTAGE	SOLDERING TEMP FOR 5 SEC.	OPERATING TEMPERATURE	STORAGE TEMPERATURE
551-0207F	75 mW	—	25 mA	60 mA	0.5 mA/°C FROM 50°C	3 V	260 °C	-25°C / +85 °C	-30°C / +100°C
551-0307F	60 mW	—	20 mA	60 mA	0.5 mA/°C FROM 50°C	3 V	260 °C	-25°C / +85 °C	-30°C / +100°C
551-0407F	60 mW	—	20 mA	60 mA	0.5 mA/°C FROM 50°C	3 V	260 °C	-25°C / +85 °C	-30°C / +100°C
551-0507F	—	7.5 V	—	—	0.086 V/°C FROM 50°C	5 V	260 °C	-40°C / +85 °C	-55°C / +100°C
551-0607F	—	7.5 V	—	—	0.086 V/°C FROM 50°C	5 V	260 °C	-40°C / +85 °C	-55°C / +100°C
551-0707F	—	7.5 V	—	—	0.086 V/°C FROM 50°C	5 V	260 °C	-40°C / +85 °C	-55°C / +100°C
551-0807F	90 mW	—	20 mA	—	0.44 mA/°C FROM 50°C	5 V	260 °C	-55°C / +100°C	-55°C / +100°C
551-1107F	20 mW	—	7 mA	—	0.7 mA/°C FROM 90°C	5 V	260 °C	-55°C / +100°C	-55°C / +100°C
551-1207F	20 mW	—	7 mA	—	0.7 mA/°C FROM 90°C	5 V	260 °C	-55°C / +100°C	-55°C / +100°C
551-1307F	20 mW	—	7 mA	—	0.7 mA/°C FROM 90°C	5 V	260 °C	-55°C / +100°C	-55°C / +100°C
551-1407F	87 mW	—	30 mA	—	0.5 mA/°C FROM 50°C	5 V	260 °C	-20°C / +100°C	-55°C / +100°C
551-1507F	100 mW	—	30 mA	120 mA	0.4 mA/°C FROM 50°C	5 V	260 °C	-55°C / +100°C	-55°C / +100°C
551-1607F	60 mW	—	20 mA	80 mA	0.25 mA/°C FROM 50°C	5 V	260 °C	-55°C / +100°C	-55°C / +100°C
551-1707F	100 mW	—	30 mA	120 mA	0.4 mA/°C FROM 50°C	5 V	260 °C	-55°C / +100°C	-55°C / +100°C
551-2507F	135 mW	—	25 mA	90 mA	0.5 mA/°C FROM 50°C	5 V	260 °C	-55°C / +100°C	-55°C / +100°C
551-5807F	75 mW	—	30 mA	60 mA	0.4 mA/°C FROM 70°C	5 V	260 °C	-40°C / +100°C	-55°C / +100°C
551-5907F	80 mW	—	20 mA	—	0.57 mA/°C FROM 65°C	5 V	260 °C	-55°C / +100°C	-55°C / +100°C
551-6107F	140 mW	—	30 mA	100 mA	0.32 mA/°C FROM 25°C	5 V	260 °C	-35°C / +85°C	-35°C / +85°C

NOTES:

- 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.
- DIALIGHT PART NUMBERS: 551-XX07F.
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.



RECOMMENDED P.C.B. HOLE PATTERN



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

RoHS COMPLIANT 551-XX07F

Part Numbers with the "F" suffix ending are RoHS Compliant. For example: 551-0207F. 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.

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: DRAWING SCALE ALL DIM'S IN: INCHES (MM)	DRAWING NUMBER C-17306	REV C
TOLERANCES: UNLESS OTHERWISE SPECIFIED FRACTIONS: ±1/64 DECIMALS (.XX): ±.02 DECIMALS (.XXX): ±.010	TITLE 3mm CBI, .200 LED CENTERLINE RoHS COMPLIANT	
ANGLES: ±3° FINISH:	MATERIAL	
FSCM 83330	1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727	
SHEET 1 OF 1 FAMILY TABLE:		