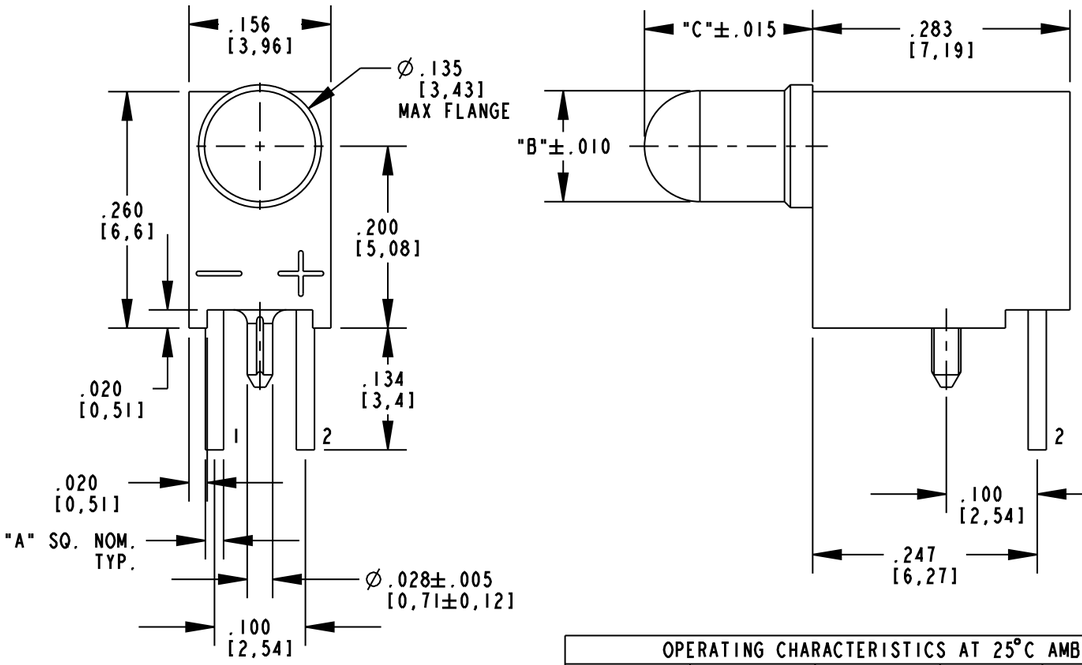
DIALIGHT PART NUMBER	LED COLOR	EPOXY COLOR	"A" DIM	"B" DIM	"C" DIM
551-0211F	GaP GREEN	TINTED DIFFUSED	.020	.122	.185
551-0311F	GaAsP/GaP YELLOW	TINTED DIFFUSED	.020	.122	.185
551-0411F	GaAsP/GaP RED	TINTED DIFFUSED	.020	.122	.185
551-0811F	GaN BLUE	WHITE DIFFUSED	.020	.110	.181
551-1111F	RED (2mA)	TINTED DIFFUSED	.018	.115	.175
551-1211F	YELLOW (2mA)	TINTED DIFFUSED	.018	.115	.175
551-1311F	GREEN (2mA)	TINTED DIFFUSED	.018	.115	.175
551-5911F	InGaN GREEN	COLORLESS DIFFUSED	.020	.110	.181

RoHS COMPLIANT 551-XX11F

Part Numbers with the "F" suffix ending are RoHS Compliant.
For example: 551-0211F
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	AJF	KLJ	NO	10-6-10



OPERATING CHARACTERISTICS AT 25°C AMBIENT - 10mA LEDS										
LED COLOR	PEAK WAVELENGTH (nm)	DOMINANT WAVELENGTH (nm)			VIEWING ANGLE (DEGREE)	LUMINOUS INTENSITY (mcd)		FORWARD VOLTAGE (V)		REVERSE CURRENT (μA)
		MIN	TYP	MAX	TYP	MIN	TYP	TYP	MAX	MAX
GaP GREEN	563	—	—	—	45	5.6	16.0	2.1	3.0	10 @ V_R = 3 V
GaAsP/GaP YELLOW	585	—	—	—	45	2.2	6.3	2.1	3.0	10 @ V_R = 3 V
GaAsP/GaP RED	650	—	—	—	45	3.6	10.0	2.0	3.0	10 @ V_R = 3 V
GaN BLUE	428	460	465	470	70	22.4	35.5	3.5	4.1	10 @ V_R = 5 V
InGaN GREEN	523	523	532	541	30	280	495	3.0	3.7	10 @ V_R = 5 V

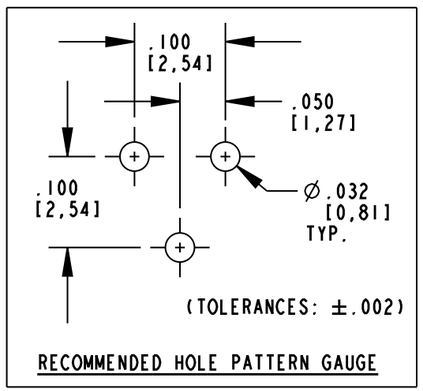
ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT - 10mA	GaP GREEN	GaAsP/GaP YELLOW	GaAsP/GaP RED	GaN BLUE	InGaN GREEN	UNITS
POWER DISSIPATION	75	60	60	90	80	mW
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1ms PULSE WIDTH) (.005 DUTY CYCLE, 0.01ms PULSE WIDTH FOR InGaN GREEN AND GaN BLUE)	60	60	60	200	250	mA
CONTINUOUS FORWARD CURRENT	25	20	20	20	20	mA
DERATE LINEARLY FROM 50°C (FROM 65°C FOR InGaN GREEN)	0.50	0.50	0.50	0.44	0.57	mA/°C
REVERSE VOLTAGE	3			5		V
LEAD SOLDERING TEMPERATURE (.063" [1.6mm] FROM BODY) FOR 5 SEC.	260					°C
OPERATING TEMPERATURE	-25 TO +85			-55 TO +100		°C
STORAGE TEMPERATURE	-30 TO +100			-55 TO +100		°C

OPERATING CHARACTERISTICS AT 25°C AMBIENT - 2mA LOW CURRENT LEDS									
LED COLOR	PEAK WAVELENGTH (nm)	DOMINANT WAVELENGTH (nm)	VIEWING ANGLE (DEGREE)	LUMINOUS INTENSITY (mcd)			FORWARD VOLTAGE (V)		REVERSE CURRENT (μA)
		TYP	TYP	MIN	TYP	MAX	TYP	MAX	MAX
RED	635	623	60	1.1	2.3	5.0	1.7	2.2	10 @ V_R = 5 V
GREEN	565	569	60	1.0	1.8	3.0	1.9	2.2	10 @ V_R = 5 V
YELLOW	585	588	60	0.4	1.4	1.8	1.8	2.2	10 @ V_R = 5 V

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT - 2mA LOW CURRENT LEDS	RED	GREEN	YELLOW	UNITS
POWER DISSIPATION	20	20	20	mW
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1ms PULSE WIDTH)	500	500	500	mA
CONTINUOUS FORWARD CURRENT	7	7	7	mA
REVERSE VOLTAGE	5			V
LEAD SOLDERING TEMPERATURE (.063" [1.6mm] FROM BODY) FOR 5 SEC.	260			°C
OPERATING TEMPERATURE	-55 TO +100			°C
STORAGE TEMPERATURE	-55 TO +100			°C

NOTES:

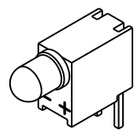
1. LED LEAD DIMENSIONS SHOWN ARE MEASURED AT HOUSING EXIT.
2. LEADS TO FIT INTO HOLES SPACED AS PER PATTERN.
3. PIN NUMBERS FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
4. DIALIGHT PART NUMBERS: 551-XX11F.
5. THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.



RECOMMENDED HOLE PATTERN GAUGE

LED SCHEMATIC

ATTENTION:
OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES



SCALE 2.000

SCALE: 6.000
ALL DIM'S IN: INCHES (MM)
TOLERANCES:
UNLESS OTHERWISE SPECIFIED
FRACTIONS: ±1/64
DECIMALS (.XX): ±.02
DECIMALS (.XXX): ±.010
ANGLES: ±1°
FINISH: -
FSCM 83330

DRAWING NUMBER C-17853
REV A
TITLE Ø3mm CBI, .200 ℄ W/ PIN RoHS COMPLIANT
MATERIAL -

Dialight
1501 ROUTE 34 SOUTH
FARMINGDALE, NJ 07727

SHEET 1 OF 1
FAMILY TABLE:

Mouser Electronics

Authorized Distributor

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

Dialight:

551-0211F 551-0411F 551-1211F 551-0311F 551-0811F 551-1311F 551-1111F