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.

InGaN GREEN	COLORLESS DIFFUSED	.020 .110 .181			
156 [3,96]	— Ø.135 [3,43] —	- "C"±.015	283		
	MAX FLANGE "B"±.010		-		
	00 ,081		I		ABSOLUTE MA
	134 3,4]				POWER DISSI PEAK FORWAR (.005 DUTY
	<u> </u>				CONTINUOUS DERATE LINE REVERSE VOL
	Ŏ.028±.005	-	/[2,5 	►	LEAD SOLDER OPERATING T STORAGE TEM
	[0,71±0,12]				

OPERATING CHARACTERISTICS AT 25°C AMBIENT - IOmA LEDS													
LED COLOR WAVEL		DOMINANT WAVELENGTH (nm)		VIEWIN ANGLE (DEGRE	E	INTENSITY VO		VOL	ORWARD OLTAGE (V)		REVERSE CURRENT (µA)		
	MIN	ΙΤΥΡ	MAX	ΤΥΡ		MIN	ΤΥΡ	ΤΥΡ	MAX		MA)	[
GaP GREEN 50	63 —	—		45		5.6	16.0	2.1	3.0	100	Vr	= 3 V	
GaAsP/GaP YELLOW 58	85 —	—	—	45		2.2	6.3	2.1	3.0	100	Vr	= 3 V	
GaAsP/GaP RED 65	50 —		—	45		3.6	10.0	2.0	3.0	100	Vr	= 3 V	
Gan BLUE 42	28 460	465	470	70		22.4	35.5	3.5	4,1	100	Vr	= 5 V	
InGaN GREEN 52	23 523	532	541	30		280	495	3.0	3.7	100	Vr	= 5 V	
NGS AT 25°C AMBIENT - IOm/	GS AT 25°C AMBIENT - IOmA					sP/GaP ELLOW	GaAsP RE		GaN BLUE	InGo GREE		UNITS	
				75		60	6	0	90	80		mW	
I/IO DUTY CYCLE, O.Ims PULSE WIDTH) Ims PULSE WIDTH FOR InGaN GREEN AND GaN BLUE)						60	6	0	200	250)	mA	
RRENT				25		20	20		20	20		mA	
0°C (FROM 65°C FOR InGaN GREEN)				0.50	0).50	0.5	50	0.44	0.5	7	mA/°C	
						3				5		۷	
ATURE (.063" [I.6mm] FROM	TURE (.063" [I.6mm] FROM BODY) FOR 5 SEC.						26)				°C	
					-25	TO +	85			0 + 1 0		°C	
				-	· 30	TO +1	00		-55 T	0 + 10	0	°C	

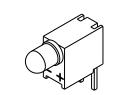
	OPERATING CHARACTERISTICS AT 25°C AMBIENT - IOMA LEDS										
LED COLOR	LED COLOR WAVELENGTH			NT Gth	VIEWING ANGLE (DEGREE	INTENSITY		FORWARD VOLTAGE (V)		REVEI CURRI (ب A	ENT
		MIN	ΤΥΡ	MAX	TYP	MIN	ΤΥΡ	TYP	MAX	MA	X
GaP GREEN	563	—		—	45	5.6	16.0	2.1	3.0	10 @ Vr	= 3 V
GaAsP/GaP YELLOW	585				45	2.2	6.3	2.1	3.0	10 @ Vr	= 3 V
GaAsP/GaP RED	650				45	3.6	10.0	2.0	3.0	10 @ Vr	= 3 V
GaN BLUE	428	460	465	470	70	22.4	35.5	3.5	4,1	10 @ Vr	= 5 V
InGaN GREEN	523	523	532	541	30	280	495	3.0	3.7	10 @ Vr	= 5 V
ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT - 10mA					GaP GREEN	aAsP/Ga YELLOW		P/GaP D	GaN BLUE	InGaN GREEN	UNITS
POWER DISSIPATION					75	60	6	0	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	6	0	200	250	mA
CONTINUOUS FORWARD CURRENT					25	20	2	0	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						۷
LEAD SOLDERING TEMPERATURE (.063" [I.6mm] FROM BODY) FOR 5 SEC.					260						
			0 0 0 0								°C
OPERATING TEMPERATURE			0 020		- ;	25 TO +	+85		-55 T	0 +100	°C °C °C

REV A

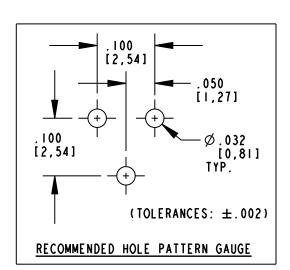
OPERATING CHARACTERISTICS AT 25°C AMBIENT - 2mA LOW CURRENT LEDS												
LED COLOR	PEAK WAVELENGTH (nm)	DOMINANT WAVELENGTH (nm)	VIEWING ANGLE (DEGREE)	IN	JMINO TENSI (mcd)	TΥ	VOL	VARD Fage /)	REV Cui			
		TYP	ΤΥΡ	MIN	TYP	MAX	TYP	MAX		XAN		
RED	635	623	60	1.1	2.3	5.0	1.7	2.2	10 🤨	Vr = 5 \	/	
GREEN	565	569	60	1.0	1.8	3.0	1.9	2.2	10 00	Vr = 5 \	/	
YELLOW	585	588	60	0.4	1.4	1.8	1.8	2.2	10 🤨	Vr = 5 \	/	
ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT - 2mA LOW CURRENT LEDS RED GREEN YEI								YELLOW	UNITS			
POWER DISS	IPATION								20	20	20	mW
PEAK FORWAR	RD CURRENT	(I/IO DUTY (CYCLE, O.	lms Pl	JLSE N	NIDTH)		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								- 5	5 TO +I	00	°C	
STORAGE TEN	MPERATURE								- 5	5 TO +I	00	°C







NOTES:



.100 [2,54]

.260 [6,6]

. 020 [0,51]

TYP.

.020 [0,51] "A" SQ. NOM.

ECN NO	REVISIONS	DRN	CKD	APP	DATE
	NEW RELEASE	AJF	KLJ	NO	10-6-10

 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-XXIIF.
THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS), MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.

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SCALE: 6.000	DRAWING NUMBER	REV					
ALL DIM'S IN; INCHES (MM)	C-17853	<u>ہ</u>					
TOLERANCES: UNLESS OTHERWISE SPECIFIED	C-17055	A					
FRACTIONS: ±1/64 DECIMALS (.XX): ±.02 DECIMALS (.XXX): ±.010 TITLE Ø 3mm CBI, .200 C W/ PIN ROHS COMPLIANT							
ANGLES: ±1°	MATERIAL -						
FINISH: -	Dialight 1501 ROUTE	34 SOUTH NJ 07727					
FSCM 83330	SHEET I OF I FAMILY TABLE:						