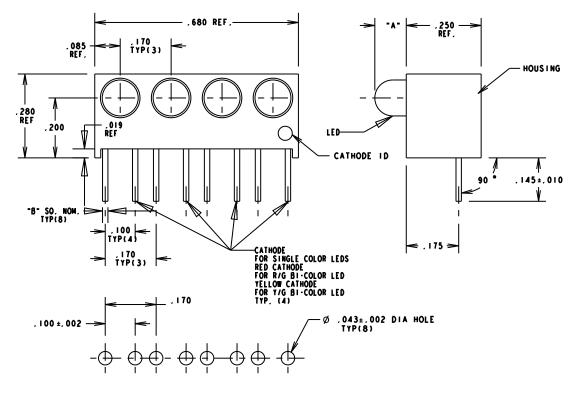
OPERATING CHARACTERISTICS AT 25°C AMBIENT FOR P/N 551-0207-004F (GREEN)							
LED CHARACTERISTICS							
LUMINOUS INTENSITY	MIN 5.6	16.0		UNITS mc d	IF = I OmA		
FORWARD VOLTAGE	0.0	2.1	3.0	V	IF=IOmA		
REVERSE CURRENT			10	μА	Vr=3V		
PEAK WAVELENGTH		563		nm	-		
2 = 1/2 INTENSITY ANGLE		45		•	IF=IOmA		
CAPACITANCE		16		ρſ	Vr=OV, f=1 MHz		
ABSOLUTE MAXIMUM RATINGS A	T 25°	C AME	BIENT				
POWER DISSIPATION					75 mW		
DERATE LINEALY FROM 50°C					.50 mA/°C		
CONTINUOUS FORWARD CURRE	N T				25 mA		
PEAK FORWARD CURRENT					60 mA		
PEAK REVERSE VOLTAGE					3 V		
LEAD SOLDERING TEMP. 5 SI	260°C						
OPERATING TEMPERATURE	-25°C TO 85°C						
STORAGE TEMPERATURE	-30°C TO 100°C						

OPERATING CHARACTERISTICS AT 25°C AMBIENT FOR P/N 551-0307-004F (YELLOW)								
LED CHARACTERISTICS	MIN	TYP	MAX	UNITS	TEST CONDITIONS			
LUMINOUS INTENSITY	2.2	6.3		mc d	IF=IOmA			
FORWARD VOLTAGE		2.1	3.0	٧	IF=IOmA			
REVERSE VOLTAGE	3			٧	IR= IOμA			
PEAK WAVELENGTH		585		nm				
2 = 1/2 INTENSITY ANGLE		45		0	IF=IOmA			
CAPACITANCE		5		ρſ	VR=OV, (=1 MHz			
ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT								
POWER DISSIPATION					60 mW			
DERATE LINEALY FROM 50°C					.50 mA/°C			
CONTINUOUS FORWARD CURREI	N T				20 mA			
PEAK FORWARD CURRENT					60 mA			
PEAK REVERSE VOLTAGE					3 V			
LEAD SOLDERING TEMP. 5 SI	260°C							
OPERATING TEMPERATURE					-25°C TO 85°C			
STORAGE TEMPERATURE -30°C TO 100°C								

OPERATING CHARACTERISTICS AT 25°C AMBIENT FOR P/N 551-0407-004F (RED)								
LED CHARACTERISTICS	MIN	TYP	MAX	UNITS	TEST CONDITIONS			
LUMINOUS INTENSITY	3.6	10		mc d	IF=IOmA			
FORWARD VOLTAGE		2.0	3.0	٧	IF=IOmA			
REVERSE VOLTAGE	3			٧	IR= IOµA			
PEAK WAVELENGTH		650		nm				
2 = 1/2 INTENSITY ANGLE		45		۰	IF=IOmA			
CAPACITANCE		9.2		pſ	VR=OV, (=1 MHz			
ABSOLUTE MAXIMUM RATINGS A								
POWER DISSIPATION					60 mW			
DERATE LINEALY FROM 50°C					.50 mA/°C			
CONTINUOUS FORWARD CURRE	N T				20 mA			
PEAK FORWARD CURRENT					60 mA			
PEAK REVERSE VOLTAGE					3 V			
LEAD SOLDERING TEMP. 5 S	260°C							
OPERATING TEMPERATURE -25°C TO 8								
STORAGE TEMPERATURE -30°C TO 100°C								

LED COLOR	DIM. "A"	DIM. "B"
GREEN	.113±.012	. 020
YELLOW	.113±.012	. 020
RED	.113±.012	.020
RED	.103±.012	.018
GREEN	.103±.012	.018
YELLOW	.103±.012	.018
RED	.103±.012	.018
YELLOW	.103±.012	.018
GREEN	.103±.012	.018
AlGoAs RED	.103±.012	.018
ORANGE	.103±.012	.018
RED/GREEN	.103±.012	. 020
YELLOW/GREEN	.103±.012	.018
	GREEN YELLOW RED GREEN YELLOW RED YELLOW GREEN AIGAAS RED ORANGE RED/GREEN	GREEN .113±.012 YELLOW .113±.012 RED .113±.012 RED .103±.012 GREEN .103±.012 YELLOW .103±.012 YELLOW .103±.012 YELLOW .103±.012 GREEN .103±.012 GREEN .103±.012 GREEN .103±.012 AIGGAS RED .103±.012 ORANGE .103±.012 RED/GREEN .103±.012



RECOMMENDED HOLE PATTERN GAUGE

OPERATING CHARACTERISTIC	S AT	25°C	AMBIEI	NT FO	R P/N 55	51-0507-00	04F (I	RED)			
LED CHARACTERISTICS	MIN	TYP	MAX	UNITS	TE	TEST CONDITIONS					
LUMINUOS INTENSITY	8.7	29		mc d		Vr = 5	٧				
FORWARD CURRENT		10	20	mA		VF = 5	٧				
REVERSE CURRENT			100	μA		VF=5 V					
PEAK WAVELENGTH		635		nm							
2 = 1/2 INTENSITY ANGLE		60		۰							
ABSOLUTE MAXIMUM RATINGS A	T 25°	C AMI	BIENT								
FORWARD VOLTAGE							7.5 \	ı			
DERATE LINEALY FROM 50°C						. 08	6 V	<b>/°</b> C			
REVERSE VOLTAGE							5 V				
LEAD SOLDERING TEMP. 5 S	OM BODY	260°C									
OPERATING TEMPERATURE						-40°C	TO	85°C			
STORAGE TEMPERATURE -55°C TO 100°C											



ATTENTION: **OBSERVE PRECAUTIONS FOR** HANDLING ELECTROSTATIC SENSITIVE DEVICES

REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A		NEW RELEASE	ALV	MES	NO	8-8-07
В		ADDED P/NS 551-3007-004F & 551-3107-004F	AJF	KLJ	NO	5-8-11

## RoHS COMPLIANT 551-XXO7-004F

Part Numbers with the "F" suffix ending are RoHS Compliant. For example: 551-0207-004F 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.

## NOTES:

- LED LEAD DIMENSIONS SHOWN ARE MEASURED AT HOUSING EXIT.
   LEADS TO FIT INTO HOLES SPACED AS PER PATTERN.
   DIALIGHT PART NUMBERS: 551-XX07-004F.

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

OPERATING CHARACTERISTICS AT 25°C AMBIENT FOR P/N 551-3107-004F (Y/G)									
LED CHARACTERISTICS	COLOR	MIN	TYP	MAX	UNITS	TEST CONDITIONS			
LUMINOUS INTENSITY	YELLOW	3.0		8.5	mc d	IF=IOmA			
LUMINOUS INTENSTIT	GREEN	6.5		18.0	IIIC G	Tr - TOMA			
FORWARD VOLTAGE	YELLOW		2.1	2.6	v	IF=IOmA			
TORWARD VOLTAGE	GREEN		2.1	2.6	_	Tr - T VIIIA			
REVERSE CURRENT	ALL			100	μA	Vr = 3V			
PEAK WAVELENGTH	YELLOW		585		nm				
FEAR WAVELENGIN	GREEN		565		"""				
2 = 1/2 INTENSITY ANGLE	ALL		80		°	IF=IOmA			
BSOLUTE MAXIMUM RATINGS AT 25°	C AMBIENT		YELLOW			GREEN			
OWER DISSIPATION			60 mW			100 mW			
ERATE LINEALY FROM 50°C			.25 mA/°C			,40 mA/°C			
ONTINUOUS FORWARD CURRENT				20 n	nA	30 mA			
EAK FORWARD CURRENT				80 n	nA	120 mA			
EAK REVERSE VOLTAGE		5 ١	ı	5 V					
EAD SOLDERING TEMP. 5 SEC. I	260°C								
PERATING TEMPERATURE	-55°C TO +100°C								
TORAGE TEMPERATURE	-55°C TO +100°C								

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 WITH	IOUT THE WRITTEN CONSENT OF DIALIGHT	•					
SCALE: DRAWING SCALE	DRAWING NUMBER	REV					
ALL DIM'S IN; INCHES (MM)	C-17509						
TOLERANCES: UNLESS OTHERWISE SPECIFIED	C-17309	D					
FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005	TITLE 3mm QUAD LED CBI RoHS COMPLIANT						
DECIMALS (,XXXX); ±,0005 ANGLES: ±1°	MATERIAL						
FINISH;	Dialight 1501 ROUTE 34						
FSCM 83330	SHEET I OF 2 FAMILY TABLE:						

OPERATING CHARACTERISTICS AT	25°C	AMBIEI	NT FO	R P/N S	551-070	7-00 <b>4</b> F	(YELI	LOW)	
LED CHARACTERISTICS	MIN	TYP	MAX	UNITS	Т	EST CON	IDITION	VS	
LUMINUOS INTENSITY	3.7	12.6		mc d		Vr = 5	٧		
FORWARD CURRENT		10	20	mA		Vr=5 V			
REVERSE CURRENT			100	μА	VR=5 V				
PEAK WAVELENGTH		585		nm					
2 = 1/2 INTENSITY ANGLE		60		DEGREES	5				
ABSOLUTE MAXIMUM RATINGS AT 25°C	ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT								
FORWARD VOLTAGE						7.5 V			
DERATE LINEALY FROM 50°C						.086 V/°C			
REVERSE VOLTAGE							5 V		
LEAD SOLDERING TEMP. 5 SEC. (.063/1.60)" FROM BODY							260°C		
OPERATING TEMPERATURE						-40°C	TO	85°C	
STORAGE TEMPERATURE							TO	100°C	

OPERATING CHARACTERISTICS AT	25°C	AMBIE	NT FC	R P/N 5	51-1107	'-004F (RED)		
LED CHARACTERISTICS	MIN	TYP	MAX	UNITS	-	TEST CONDITION	NS .	
LUMINUOS INTENSITY	1.0	1.6		mc d		IF=2mA		
FORWARD VOLTAGE		1.7	2.2	mA		IF=2mA		
REVERSE CURRENT			10	μ <b>A</b>		Vr=5 V		
PEAK WAVELENGTH		635		nm				
2 = 1/2 INTENSITY ANGLE		60		DEGREES				
ABSOLUTE MAXIMUM RATINGS AT 25°C								
POWER DISSIPATION						20 mW		
CONTINUOUS FORWARD CURRENT						7 mA		
PEAK FORWARD CURRENT (1/10 DUT	Y CYCL	E, O.	l ms P	ULSE WID	TH)	500 m	A	
REVERSE VOLTAGE						5 V		
LEAD SOLDERING TEMP. 5 SEC. (.	260°C							
OPERATING TEMPERATURE	-55°C TO	100°C						
STORAGE TEMPERATURE	-55°C TO	100°C						

OPERATING CHARACTERISTICS AT	25°C	AMBIE	NT FO	R P/N 5	551-1207-004F (YELLOW	)		
LED CHARACTERISTICS	MIN	TYP	MAX	UNITS	TEST CONDITIONS			
LUMINUOS INTENSITY	2.3	5		mc d	IF=2mA			
FORWARD VOLTAGE		1.8	2.4	mA	IF=2mA			
REVERSE CURRENT			100	μ <b>A</b>	Vr=5 V			
PEAK WAVELENGTH		591		nm				
2 = 1/2 INTENSITY ANGLE		60		DEGREES				
ABSOLUTE MAXIMUM RATINGS AT 25°C	AMBIEN	ΙT						
POWER DISSIPATION					75 mW			
CONTINUOUS FORWARD CURRENT					30 mA			
PEAK FORWARD CURRENT (1/10 DUT	Y CYCL	E, 0.	ms P	ULSE WID	)TH) 60 mA			
REVERSE VOLTAGE					5 V			
LEAD SOLDERING TEMP. 5 SEC. (.	260°C							
OPERATING TEMPERATURE	·			·	-40°C TO 10	0°C		
STORAGE TEMPERATURE	-55°C TO 10	0°C						

OPERATING CHARACTERISTICS AT	25°C	AMBIE	NT FO	R P/N 5	<b>51-14</b> 07	7-004F (RED)		
LED CHARACTERISTICS	MIN	TYP	MAX	UNITS	TEST CONDITIONS			
LUMINOUS INTENSITY	2	3		mc d	IF=IOmA			
FORWARD VOLTAGE		1.6	1.8	٧		IF=IOmA		
REVERSE VOLTAGE	5			٧		IR=100μA		
PEAK WAVELENGTH		645		nm				
2 = 1/2 INTENSITY ANGLE		45		DEGREES	IF=IOmA			
CAPACITANCE		30		pſ	Vr=OV, f=IMHz			
ABSOLUTE MAXIMUM RATINGS AT 25°C								
POWER DISSIPATION						87 mW		
DERATE LINEALY FROM 50°C						.50 mA/°C		
CONTINUOUS FORWARD CURRENT						30 mA		
PEAK PULSE CURRENT 10 4 S PULSE						300 mA		
PEAK REVERSE VOLTAGE						5 V		
LEAD SOLDERING TEMP. 5 SEC. 1/		260°C						
OPERATING TEMPERATURE						-20°C TO 100°C		
STORAGE TEMPERATURE		-55°C TO 100°C						

	_							
OPERATING CHARACTERISTICS AT	25°C AMBIENT FOR P/N 551-2507-004F (ORANGE)							
LED CHARACTERISTICS	MIN	TYP	MAX	UNITS	T	TEST CONDITIONS		
LUMINOUS INTENSITY	3.4	7.0	10.8	mc d		F =   0mA		
FORWARD VOLTAGE	1.5	1.9	2.4	٧		IF=IOmA		
REVERSE CURRENT			100	μА	Vr=5 V			
PEAK WAVELENGTH		600		nm				
2 = 1/2 INTENSITY ANGLE		60		DEGREES	IF=IOmA			
CAPACITANCE		4		pſ	Vr=OV, (=IMHz		ız	
ABSOLUTE MAXIMUM RATINGS AT 25°C	AMBIE	VT						
POWER DISSIPATION						1.	35 mW	ı
DERATE LINEALY FROM 50°C					.50 mA/°C			
AVERAGE FORWARD CURRENT 25				25 mA				
PEAK FORWARD CURRENT 90				90 mA	1			
REVERSE VOLTAGE					5 V			
LEAD SOLDERING TEMP. 5 SEC. 1/	16" FR	OM BAS	SE			;	260°C	
OPERATING TEMPERATURE						- 55°C	TO	100°C
STORAGE TEMPERATURE						-55°C	TO	100°C

	0 -							
OPERATING CHARACTERISTICS AT 25°C AMBIENT FOR P/N 551-0607-004F (GREEN)								
LED CHARACTERISTICS	MIN	TYP	MAX	UNITS	TEST CONDIT	TONS		
LUMINUOS INTENSITY	5.6	19		mc d	Vr=5 V			
FORWARD CURRENT		10	20	mA	Vr=5 V			
REVERSE CURRENT			100	μA	Vr=5 V			
PEAK WAVELENGTH		565		nm				
2 = 1/2 INTENSITY ANGLE		60		DEGREES				
ABSOLUTE MAXIMUM RATINGS AT 25°C	AMBIEI	VT						
FORWARD VOLTAGE					7.5	7.5 V		
DERATE LINEALY FROM 50°C					. 086	.086 V/°C		
REVERSE VOLTAGE					5	5 V		
LEAD SOLDERING TEMP. 5 SEC. (.063/1.60)" FROM BODY					260	260°C		
OPERATING TEMPERATURE					-40°C T	0 85°C		
STORAGE TEMPERATURE					-55°C T	0 100°C		

	o=0 o	4401		D D (1) E			
OPERATING CHARACTERISTICS AT 25°C AMBIENT FOR P/N 551-1307-004F (GREEN)							
LED CHARACTERISTICS	MIN	TYP	MAX	UNITS	TEST CONDITIONS		
LUMINUOS INTENSITY	1.0	1.6		mc d	IF=2mA		
FORWARD VOLTAGE		1.9	2.2	mA	IF=2mA		
REVERSE CURRENT			10	μ 🗛	Vr=5 V		
PEAK WAVELENGTH		565		nm			
2 = 1/2 INTENSITY ANGLE		60		DEGREES			
ABSOLUTE MAXIMUM RATINGS AT 25°C	AMBIEN	VT					
POWER DISSIPATION	20 mW						
CONTINUOUS FORWARD CURRENT					7 mA		
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, O.1 ms PULSE WIDTH)					)TH) 500 mA		
REVERSE VOLTAGE					5 V		
LEAD SOLDERING TEMP. 5 SEC. (.063/1.60)" FROM BODY 260°					260°C		
OPERATING TEMPERATURE					-55°C TO 100°C		
STORAGE TEMPERATURE					-55°C TO 100°C		

OPERATING CHARACTE	RISTICS AT 25°C	AMBIE	ENT F	OR P/I	V 551-3	3007-004F (R/G)
LED CHARACTERISTICS	COLOR	MIN	TYP	MAX	UNITS	TEST CONDITIONS
LUMINOUS INTENSITY	RED	3.0	5.6			1 F = 20mA
LOWINGOS INIENSIII	GREEN	3.7	8.7		mc d	IF-ZUMA
FORWARD VOLTAGE	RED		2.0	2.6	V	IF=20mA
PORWARD VOLTAGE	GREEN		2.1	2.6	] <b>'</b>	IF-ZUMA
REVERSE CURRENT	ALL			100	μA	Vr=5V
PEAK WAVELENGTH	RED		630			
PEAR WAVELENGIH	GREEN		565		nm	
2 = 1/2 INTENSITY ANGLE	ALL		200		۰	IF=20mA
ABSOLUTE MAXIMUM RATINGS A	T 25°C AMBIENT			RE	D/GRE	EN
POWER DISSIPATION					100 m	nW
DERATE LINEALY FROM 50°C	NEALY FROM 50°C			. 4	10 m/	A/°C
CONTINUOUS FORWARD CURRE	N T				30 m	A
PEAK FORWARD CURRENT					120 n	nA

PEAK REVERSE VOLTAGE

OPERATING TEMPERATURE

STORAGE TEMPERATURE

LEAD SOLDERING TEMP. 5 SEC. 1/16" FROM BASE

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 DRAWING NUMBER REV

5 V

260°C

-55°C TO +100°C

-55°C TO +100°C

٧
}
)
TH 7727

SHEET 2 OF 2 FAMILY TABLE: