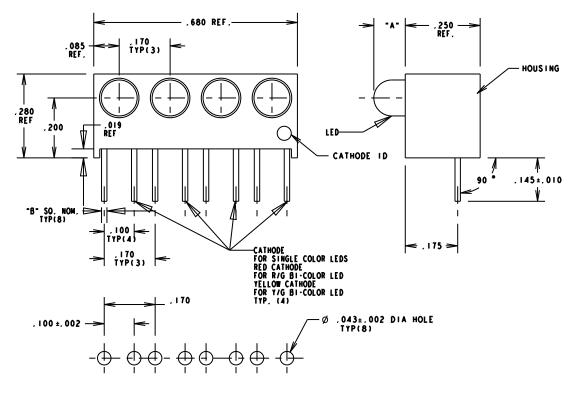
OPERATING CHARACTERISTICS A	T 25°	C AMB	IFNT F	OR P/	N 551-0207-004F (GREEN)		
LED CHARACTERISTICS	MIN	TYP		UNITS			
LUMINOUS INTENSITY	5.6	16.0		mc d	IF = I OmA		
FORWARD VOLTAGE	0.0	2.1	3.0	V	IF=IOmA		
REVERSE CURRENT			10	μА	Vr=3V		
PEAK WAVELENGTH		563		nm	-		
2 = 1/2 INTENSITY ANGLE		45		•	IF=IOmA		
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							

OPERATING CHARACTERISTICS AT 25°C AMBIENT FOR P/N 551-0307-004F (YELLOW)								
MIN	TYP	MAX	UNITS	TEST CONDITIONS				
2.2	6.3		mc d	IF=IOmA				
	2.1	3.0	٧	IF=IOmA				
3			٧	IR= IOμA				
	585		nm					
	45		۰	IF=IOmA				
	5		pſ	VR=OV, (=1 MHz				
ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT								
				60 mW				
				.50 mA/°C				
ΙT				20 mA				
				60 mA				
				3 V				
LEAD SOLDERING TEMP, 5 SEC. 1/16" FROM BASE								
OPERATING TEMPERATURE -25°C TO								
STORAGE TEMPERATURE -30°C TO 100°								
	MIN 2.2 3 3 T 25°	MIN TYP 2.2 6.3 2.1 3 585 45 5 7 25°C AME	MIN TYP MAX 2.2 6.3 2.1 3.0 3 585 45 5 7 25°C AMBIENT	MIN TYP MAX UNITS 2.2 6.3 mcd 2.1 3.0 V 3 V 585 nm 45 ° 5 pf T 25°C AMBIENT				

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 = I OmA			
CAPACITANCE		9.2		рſ	Vr=OV, f=I MHz			
ABSOLUTE MAXIMUM RATINGS A								
POWER DISSIPATION					60 mW			
DERATE LINEALY FROM 50°C					.50 mA/°C			
CONTINUOUS FORWARD CURRE	NT				20 mA			
PEAK FORWARD CURRENT					60 mA			
PEAK REVERSE VOLTAGE					3 V			
LEAD SOLDERING TEMP. 5 S	260°C							
OPERATING TEMPERATURE	-25°C TO 85°C							
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	1-0507-00	04F (I	RED)
LED CHARACTERISTICS	MIN	TYP	MAX	UNITS	TE	ST CONE	DITION	S
LUMINUOS INTENSITY	8.7	29		mc d		VF = 5	٧	
FORWARD CURRENT		10	20	mΑ		VF = 5	٧	
REVERSE CURRENT			100	μA		VF = 5	٧	
PEAK WAVELENGTH		635		nm				
2 = 1/2 INTENSITY ANGLE		60		۰				
ABSOLUTE MAXIMUM RATINGS A	T 25°	C AME	BIENT					
FORWARD VOLTAGE						7	7.5 \	,
DERATE LINEALY FROM 50°C						. 08	6 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						-55°C	TO	100°C



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

R	EV	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		IF=IOmA	
LUMINOUS INTENSITY	GREEN	6.5		18.0	mc d	IF - I UMA	
FORWARD VOLTAGE	YELLOW		2.1	2.6	v	IF=IOmA	
FORWARD VOLTAGE	GREEN		2.1	2.6	•	TF - TOMA	
REVERSE CURRENT	ALL			100	μA	Vr = 3V	
PEAK WAVELENGTH	YELLOW		585		nm		
PEAR WAVELENGIN	GREEN		565		"m		
2 = 1/2 INTENSITY ANGLE	ALL		80		°	IF=IOmA	
BSOLUTE MAXIMUM RATINGS AT 25°	C AMBIENT		YELLOW			GREEN	
OWER DISSIPATION			60 mW			100 mW	
PERATE LINEALY FROM 50°C				25 m	A/°C	,40 mA/°C	
ONTINUOUS FORWARD CURRENT				20 n	nA	30 mA	
PEAK FORWARD CURRENT				80 n	nA	120 mA	
PEAK REVERSE VOLTAGE		5 ١	<i>,</i>	5 V			
EAD SOLDERING TEMP. 5 SEC. I	260°C						
PERATING TEMPERATURE	-55°C TO +100°C						
TORAGE TEMPERATURE		-55°C TO +100°C					

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SCALE: DRAWING SCALE	DRAWING NUMBER	REV
ALL DIM'S IN: INCHES (MM) TOLERANCES:	C-17509	В
UNLESS OTHERWISE SPECIFIED 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	AMBIE	NT FO	R P/N 5	51-0707-004F (YELLOW)
LED CHARACTERISTICS	MIN	TYP	MAX	UNITS	TEST CONDITIONS
LUMINUOS INTENSITY	3.7	12.6		mc d	Vr=5 V
FORWARD CURRENT		10	20	mA	Vr=5 V
REVERSE CURRENT			100	μA	Vr=5 V
PEAK WAVELENGTH		585		nm	
2 = 1/2 INTENSITY ANGLE		60		DEGREES	
ABSOLUTE MAXIMUM RATINGS AT 25°C	AMBIEN	NT T			
FORWARD VOLTAGE					7.5 V
DERATE LINEALY FROM 50°C					.086 V/°C
REVERSE VOLTAGE					5 V
LEAD SOLDERING TEMP. 5 SEC. (.	260°C				
OPERATING TEMPERATURE	-40°C TO 85°C				
STORAGE TEMPERATURE	-55°C TO 100°C				

25°C	AMBIE	NT FC	R P/N 5	51-1107-	004F (F	RED)	
MIN	TYP	MAX	UNITS	Т	EST CON	DITION	IS
1.0	1.6		mc d		1 F = 2	mA	
	1.7	2.2	mA		1 F = 2	mA	
		10	μ A		Vr=5	٧	
	635		nm				
	60		DEGREES				
AMBIEN	NT T						
					20 mW		
					7 mA		
Y CYCL	E, O.	l ms P	ULSE WID	TH)	5	00 m/	1
						5 V	
LEAD SOLDERING TEMP. 5 SEC. (.063/1.60)" FROM BODY							
OPERATING TEMPERATURE							
					-55°C	TO	100°C
	MIN 1.0 AMBIEN	MIN TYP 1.0 1.6 1.7 635 60 AMBIENT	MIN TYP MAX 1.0 1.6 1.7 2.2 10 635 60 AMBIENT Y CYCLE, 0.1 ms P	MIN TYP MAX UNITS 1.0 1.6 mcd 1.7 2.2 mA 10 μA 635 nm 60 DEGREES AMBIENT Y CYCLE, 0.1 ms PULSE WID	MIN TYP MAX UNITS T 1.0 1.6 mcd 1.7 2.2 mA 10 μA 635 nm 60 DEGREES AMBIENT Y CYCLE, 0.1 ms PULSE WIDTH)	MIN TYP MAX UNITS TEST CON 1.0 1.6 mcd IF=20 1.7 2.2 mA IF=20 10 μA VR=5 635 nm 60 DEGREES AMBIENT 2 Y CYCLE, 0.1 ms PULSE WIDTH 50 063/1.60) FROM BODY 2 -55° C	1.0 1.6 mcd IF=2mA 1.7 2.2 mA IF=2mA 10 μA VR=5 V 635 nm 60 DEGREES AMBIENT 20 mW 7 mA Y CYCLE, 0.1 ms PULSE WIDTH 500 m/s 5 V 063/1.60) FROM BODY 260°C -55°C TO

OPERATING CHARACTERISTICS AT	25°C	AMBIE	NT FO	R P/N 5	51-120	7-00 4 F	(YELL	.OW)
LED CHARACTERISTICS	MIN	TYP	MAX	UNITS	TEST CONDITION			VS
LUMINUOS INTENSITY	2.3	5		mc d		IF=2	mA	
FORWARD VOLTAGE		1.8	2.4	mA		IF=2	mA	
REVERSE CURRENT			100	μA		Vr = 5	٧	
PEAK WAVELENGTH		591		nm				
2 = 1/2 INTENSITY ANGLE		60		DEGREES				
ABSOLUTE MAXIMUM RATINGS AT 25°C								
POWER DISSIPATION						75 mW		
CONTINUOUS FORWARD CURRENT						30 mA		
PEAK FORWARD CURRENT (1/10 DUT	Y CYCL	E, O.	l ms P	ULSE WID	TH)) 60 mA		
REVERSE VOLTAGE						5 V		
LEAD SOLDERING TEMP. 5 SEC. (.(260°C						
OPERATING TEMPERATURE							TO	100°C
STORAGE TEMPERATURE -55°C							TO	100°C

OPERATING CHARACTERISTICS AT	25°C	AMBIE	NT FC	R P/N 5	5 <mark>1-14</mark> 07	-004F (RED)		
LED CHARACTERISTICS	MIN	TYP	MAX	UNITS	TI	EST CONDITIONS		
LUMINOUS INTENSITY	2	3		mç 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 AMBIEI	VT						
POWER DISSIPATION						87 mW		
DERATE LINEALY FROM 50°C						.50 mA/°C		
CONTINUOUS FORWARD CURRENT						30 mA		
PEAK PULSE CURRENT 10 µs PULS	E					300 mA		
PEAK REVERSE VOLTAGE		5 V						
LEAD SOLDERING TEMP. 5 SEC. I		260°C						
OPERATING TEMPERATURE						-20°C TO 100°C		
STORAGE TEMPERATURE		-55°C TO 100°C						

OPERATING CHARACTERISTICS AT	25°C	AMBIE	NT FO	R P/N 5	51-250	7-004F (ORANGE)		
LED CHARACTERISTICS	MIN	TYP	MAX	UNITS	Т	EST CONDITIONS		
LUMINOUS INTENSITY	3.4	7.0	10.8	mc d		I F = 1 0mA		
FORWARD VOLTAGE	1.5	1.9	2.4	٧		IF=IOmA		
REVERSE CURRENT			100	μ A		Vr=5 V		
PEAK WAVELENGTH		600		nm				
2 = 1/2 INTENSITY ANGLE		60		DEGREES		IF=IOmA		
CAPACITANCE		4		pſ	1	Vr=OV, f=IMHz		
ABSOLUTE MAXIMUM RATINGS AT 25°C								
POWER DISSIPATION						135 mW		
DERATE LINEALY FROM 50°C						.50 mA/°C		
AVERAGE FORWARD CURRENT						25 mA		
PEAK FORWARD CURRENT		90 mA						
REVERSE VOLTAGE						5 V		
LEAD SOLDERING TEMP. 5 SEC. 1/16" FROM BASE						260°C		
OPERATING TEMPERATURE						-55°C TO 100°C		
STORAGE TEMPERATURE					-55°C TO 100°C			

OPERATING CHARACTERISTICS AT	25°C	AMBIEI	NT FO	R P/N 5	51-0607-0	04F (GREE	EN)
LED CHARACTERISTICS	MIN	TYP	MAX	UNITS	TEST	CONE	DITION	IS
LUMINUOS INTENSITY	5.6	19		mc d		Vr=5	٧	
FORWARD CURRENT		10	20	mA		Vr=5	٧	
REVERSE CURRENT			100	μ A		Vr=5	٧	
PEAK WAVELENGTH		565		nm				
2 = 1/2 INTENSITY ANGLE		60		DEGREES				
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					- 4	0°C	TO	85°C
STORAGE TEMPERATURE					- 5	5°C	TO	100°C

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	μA	Vr=5 V		
PEAK WAVELENGTH		565		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)TH) 500 mA						
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 AMBIENT FOR P/N 551-3007-004F (R/G)								
LED CHARACTERISTICS	COLOR	MIN	TYP	MAX UNITS TEST		CONDITIONS		
LUMINOUS INTENSITY	RED	3.0	5.6				F=20mA	
	GREEN	3.7	8.7		mc d	•	F - Z UIIIA	
FORWARD VOLTAGE	RED		2.0	2.6	٧		Ir=20mA	
	GREEN		2.1	2.6	•	I F - Z UMA		
REVERSE CURRENT	ALL			100 μA		Vr = 5V		
PEAK WAVELENGTH	RED		630					
	GREEN		565		nm			
2 = 1/2 INTENSITY ANGLE	ALL		200		0		r = 20mA	
ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT				RED/GREEN				
POWER DISSIPATION				IOO mW				
DERATE LINEALY FROM 50°C				. 40 mA/°C				
CONTINUOUS FORWARD CURRENT				30 mA				
PEAK FORWARD CURRENT				120 mA				

PEAK REVERSE VOLTAGE

OPERATING TEMPERATURE

STORAGE TEMPERATURE

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

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5 V

260°C

-55°C TO +100°C

-55°C TO +100°C

TOLERANCES: UNLESS OTHERWISE SPECIFIED FRACTIONS: ±1/64 TITLE 3 mm QUAD LED CBI RoHS COMPLIANT DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005 DECIMALS (.XXXX): ±.0005 MATERIAL ANGLES: ±1°

FINISH: Dialight 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 83330

SHEET 2 OF 2 FAMILY TABLE:

Mouser Electronics

Authorized Distributor

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Dialight:

551-3007-004F 551-3107-004F