



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A		NEW RELEASE	ALV			

- NOTES:
1. MILLIMETER DIMENSIONS SHOWN FOR REFERENCE ONLY.
 2. LEADS TO FIT INTO HOLES SPACED AS PER PATTERN.
 3. PIN NUMBERS FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
 4. DIALIGHT PART NUMBER: 553-0781-853F.
 5. THIS ASSEMBLY CONTAINS ELECTROSTATIC SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING AND STORAGE IN ACCORDANCE WITH IPC-A-610.

RoHS Compliant 553-0781-853F Thru hole Bi-level CBI

Part Numbers with the "F" suffix ending are RoHS Compliant. The bag 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.

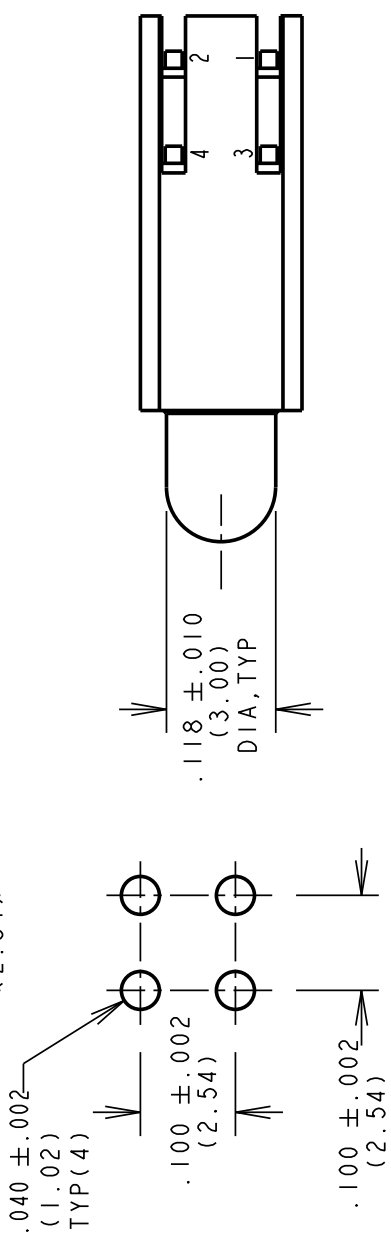
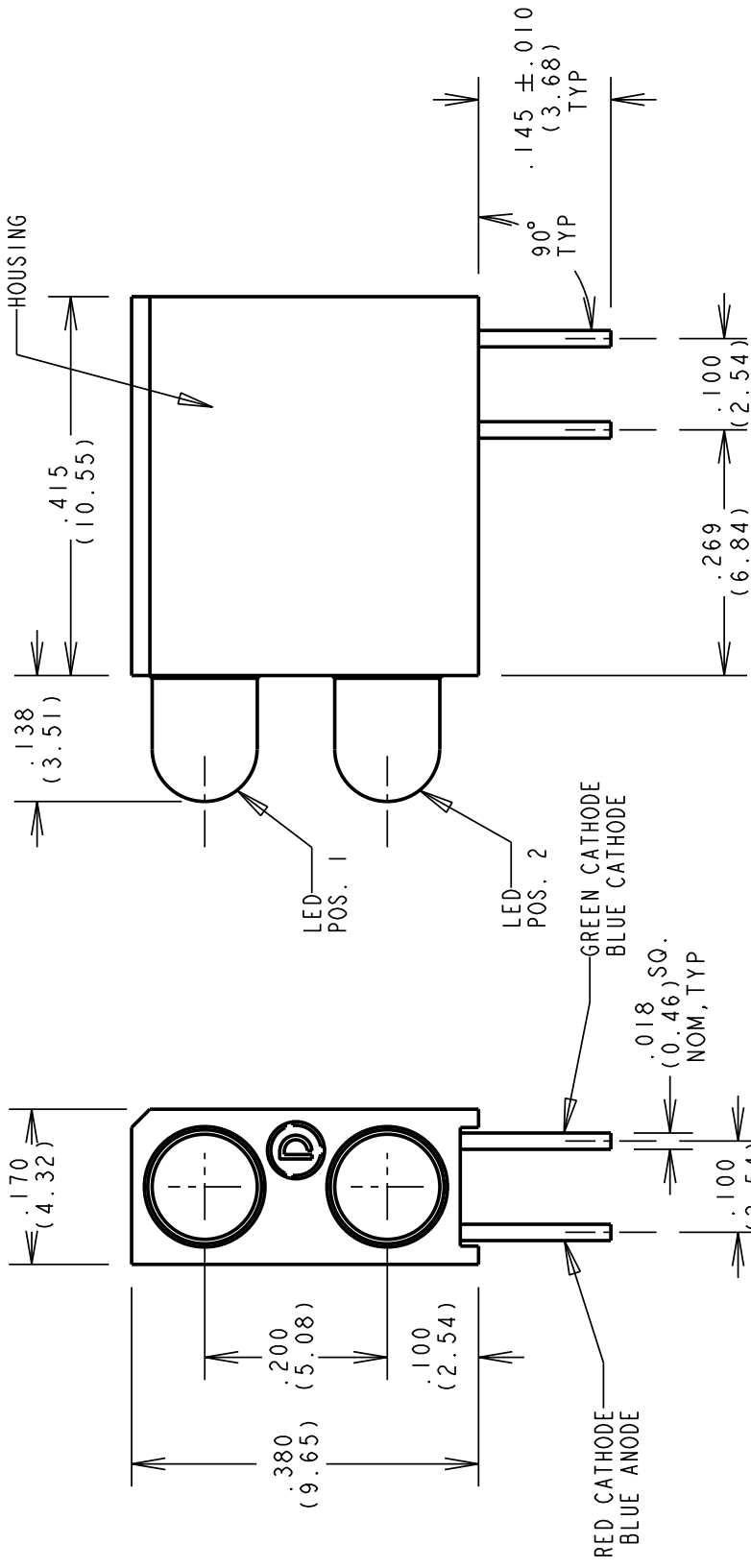
RED/GREEN BI-COLOR BOTTOM POSITION (LED POS 2.)

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT

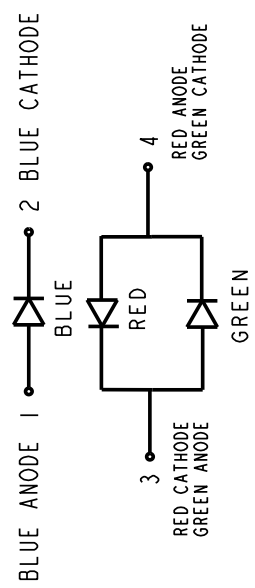
POWER DISSIPATION	100 mW
DERATE LINEALLY FROM 50 °C	.40 mA/°C
CONTINUOUS FORWARD CURRENT	30 mA
PEAK FORWARD CURRENT (10 ms PULSE WIDTH, 1/10 DUTY)	120 mA
PEAK REVERSE VOLTAGE	5 V
LEAD SOLDERING TEMPERATURE, 6 SEC., 1/16" FROM BASE	260 °C
OPERATING TEMPERATURE	-55 to +100°C
STORAGE TEMPERATURE	-55 to +100°C

OPERATING CHARACTERISTICS AT 25 °C AMBIENT

LED CHARACTERISTICS	COLOR	MIN	TYP	MAX	UNITS	TEST OPERATIONS
LUMINOUS INTENSITY	GREEN	3.7	10.0		mc d	If = 10mA
	RED	2.5	4.7			
FORWARD VOLTAGE	GREEN		2.1	2.8	V	If = 20mA
	RED		2.0			
REVERSE CURRENT	GREEN			100	µA	Vr = 5 V
PEAK WAVELENGTH	GREEN		565		nm	If = 20 mA
	RED		635			
2 = 1/2 - INTENSITY ANGLE	GREEN		60		DEGREES	If = 20mA
	RED					
CAPACITANCE	GREEN		35		pf	Vr=0 V, f = 1 mHz
	RED		20			



RECOMMENDED PC BOARD HOLE PATTERN



BLUE LED TOP POSITION (LED POS 1)

ABSOLUTE MAXIMUM RATING AT 25°C AMBIENT		OPERATING CHARACTERISTICS AT 25 °C AMBIENT	
CHARACTERISTICS	UNITS	CHARACTERISTICS	UNITS
POWER DISSIPATION	BLUE 90	MIN	MAX
FORWARD CURRENT	20 mA	7.1	12.5
OPERATING LINEAR FROM 50°C	-44 mA/°C	3.5	4.1
REVERSE VOLTAGE	5 V	462	465
LEAD SOLDERING TEMPERATURE, 5 SEC, 1/16" FROM BODY	260 °C	428	428
OPERATING TEMPERATURE	-55 to +100 °C	VIEW ANGLE	2 1/2
STORAGE TEMPERATURE	-55 to +100 °C	PEAK EMISSION WAVELENGTH	70
		TEST CONDITIONS	
		LUMINOUS INTENSITY	18.0
		FORWARD VOLTAGE	If = 10 mA

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SCALE: 5:1

ALL DIM'S IN: INCHES (MM)

TOLERANCES: UNLESS OTHERWISE SPECIFIED

FRACTIONS: ±1/64

DECIMALS (.XX): ±.01

DECIMALS (.XXX): ±.005

DECIMALS (.XXXX): ±.0005

ANGLES: ±1°

FINISH:

DRAWING NUMBER: C-17439

REV: A

TITLE: CBI, 3MM BI-LEVEL RoHS COMPLIANT

MATERIAL:

Dialight
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FARMINGDALE, NJ 07727

SHEET 1 OF 1 FAMILY TABLE:

FSCM 83330