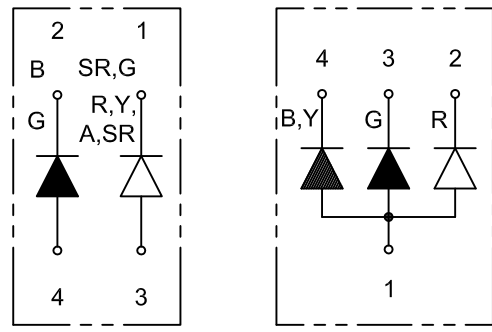
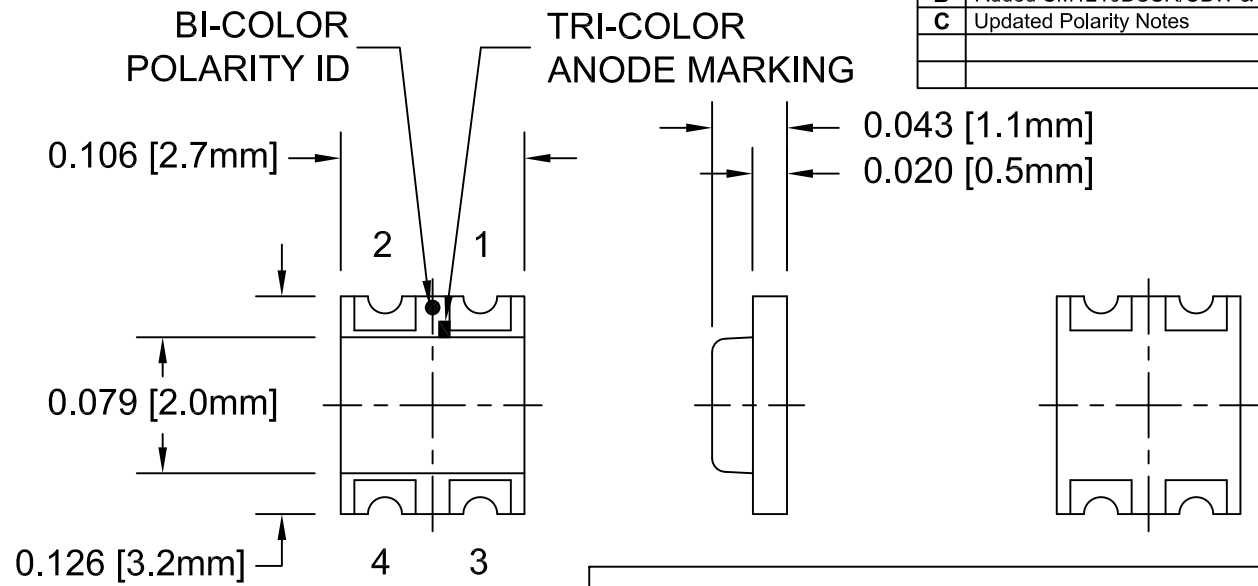
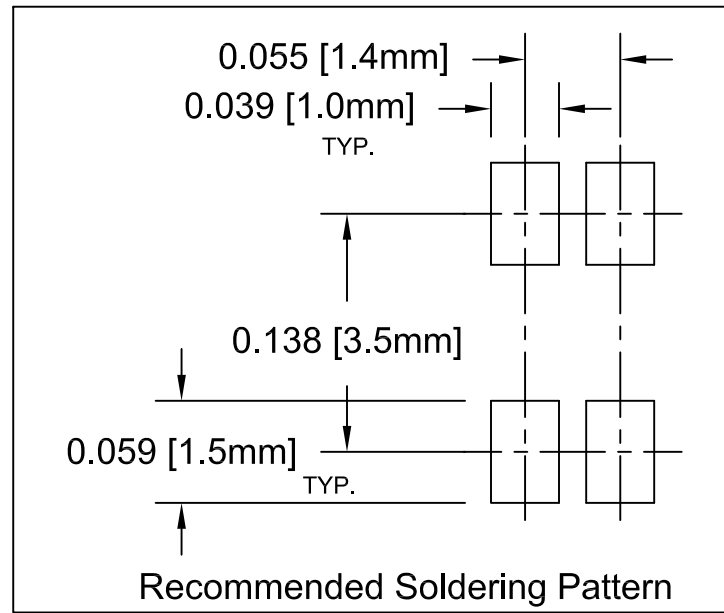


REV.	DESCRIPTION	DATE	APPROVED
A	Engineering Update w/o Changes	03/10/04	M. C.
B	Added SM1210BCSR/UBW & G/UBW	12/10/04	M. C.
C	Updated Polarity Notes	06/03/08	M. C.



BI-COLOR

TRI-COLOR



Recommended Soldering Pattern

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)



REVERSE VOLTAGE _____	5V
REVERSE CURRENT _____	100uA
OPERATING TEMPERATURE RANGE _____	-25° C - 85° C
STORAGE TEMPERATURE _____	-30° C - 100° C
LEAD SOLDERING TEMPERATURE(1/16" FROM BODY) _____	260° C FOR 5 SECONDS

STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED)		BIVAR [®] 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974
DECIMALS	ANGULAR	
.X ±.1	X° ± 1°	
.XX ±.02		TITLE: SURFACE MOUNT BI-COLOR, TRI-COLOR PART NO: SM1210XXXX CAGE CODE : 32559 SHEET # 1 OF 3
.XXX ±.010		
DESIGNED: David Green	DATE: 03/10/04	REVISION: C CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.
CHECKED: T. Yin	DATE: 03/10/04	

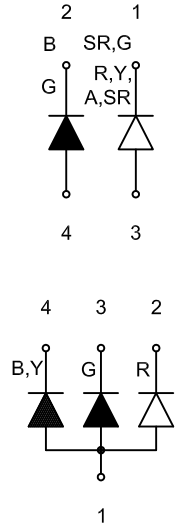
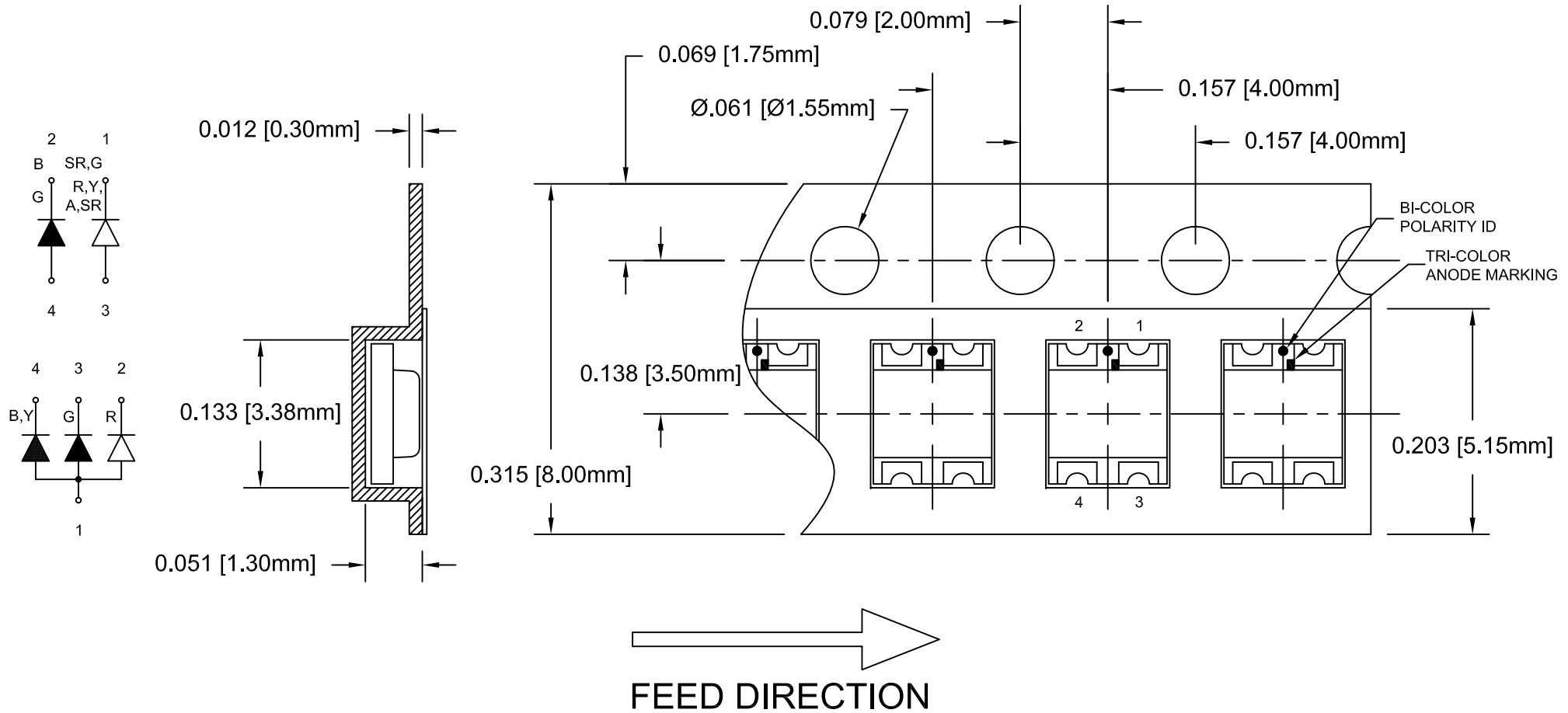
REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET#1.		

LED Part No.	Chip			Lens Appearance	Absolute Max. Ratings				Electro-Optical Data @ 20mA			Viewing Angle 2 θ 1/2 (Deg)
	Material	Peak Wave Length λ_p (nm)	Emitted Color		$\Delta\lambda$ (nm)	Pd (mW)	If (mA)	Peak If(mA)	Vf (V)		Iv (mcd)	
									TYP	MAX	TYP	
SM1210BC	GaAsP/GaP	635	HE RED	WATER CLEAR	45	100	30	150	1.9	2.6	16	140
	GaP	568	GREEN		30	100	30	150	2.1	2.6	15	
SM1210BC-A/G	GaAsP/GaP	610	AMBER	WATER CLEAR	35	100	30	150	2.0	2.6	15	140
	GaP	568	GREEN		30	100	30	150	2.2	2.6	15	
SM1210BC-Y/G	GaP	568	GREEN	WATER CLEAR	35	100	30	150	2.1	2.6	15	140
	GaAsP/GaP	585	YELLOW		35	100	30	150	2.1	2.6	10	
SM1210BCSR/HG	GaAlAs/GaAs	660	SUPER RED	WATER CLEAR	20	100	30	150	1.8	2.6	30	140
	GaP	560	HE GREEN		30	100	30	150	2.0	2.6	25	
SM1210BCSR/UBW	AlGaInP	645	RED	WATER CLEAR	20	75	30	125	2.0	2.5	50	140
	InGaNSiC	468	BLUE		41	114	30	125	3.2	3.8	40	
SM1210BCG/UBW	AlGaInP	572	GREEN	WATER CLEAR	20	72	30	125	2.0	2.5	25	140
	InGaNSiC	468	BLUE		41	114	30	125	3.3	3.8	40	
SM1210RGY*	GaAsP/GaP	635	HE RED	WATER CLEAR	45	100	30	150	1.9	2.6	16	140
	GaP	568	GREEN		30	100	30	150	2.1	2.6	15	
	GaAsP/GaP	585	YELLOW		35	100	30	150	2.1	2.6	10	
SM1210RGB*	GaAlAs/GaAs	660	SUPER RED	WHITE DIFFUSED	20	150	30	100	1.8	2.6	30	120
	GaP	565	HE GREEN		35	150	30	100	2.2	2.6	18	
	GaN/SiC	430	SUPER BLUE		65	150	30	100	4.0	4.5	25	


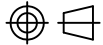
*A NODE MARKING

STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) $\pm 10\%$ ALL VALUES		 BIVAR [®] 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
ANGULAR X° \pm 5°			
		TITLE: SURFACE MOUNT BI-COLOR, TRI-COLOR	
		DESIGNED: David Green	DATE: 03/10/04
CHECKED: T. Yin		DATE: 03/10/04	CAGE CODE : 32559 SHEET # 2 OF 3
CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.			

REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET#1.		



2. UNLESS OTHERWISE SPECIFIED,
PACKAGING TO COMPLY WITH EIA-481
1. 3000 pcs PER REEL

STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED)		 BIVAR [®] 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
DECIMALS	ANGULAR		
.X ±.1	X° ± 5°		
.XX ±.02		 TITLE: SURFACE MOUNT BI-COLOR, TRI-COLOR	
.XXX ±.010			
DESIGNED: David Green	DATE: 03/10/04	PART NO: SM1210XXXX	REVISION: C
CHECKED: T. Yin	DATE: 03/10/04	CAGE CODE : 32559	SHEET # 3 OF 3
CAD GENERATED DOCUMENT. DO NOT MEASURE DRAWING.			