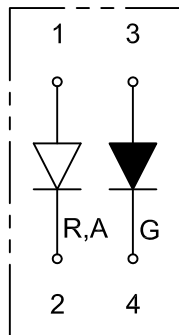
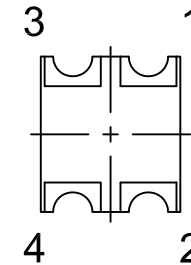
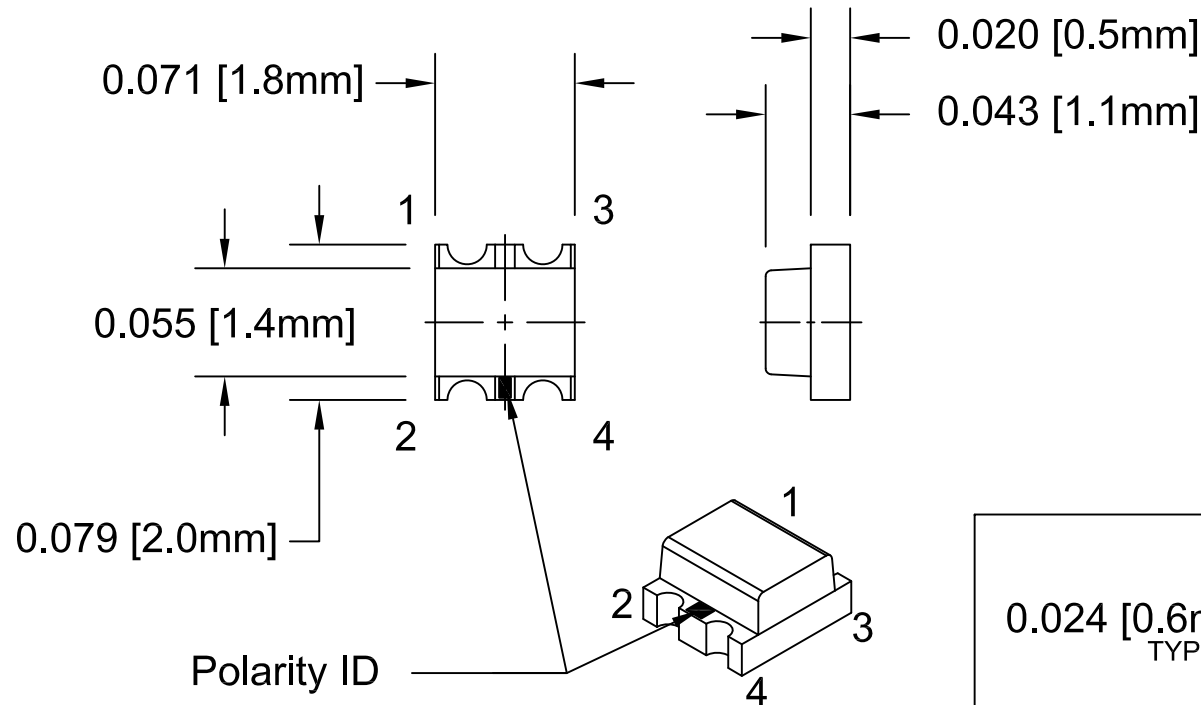
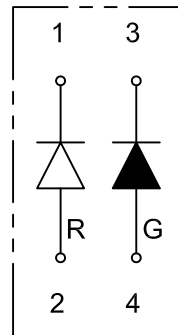


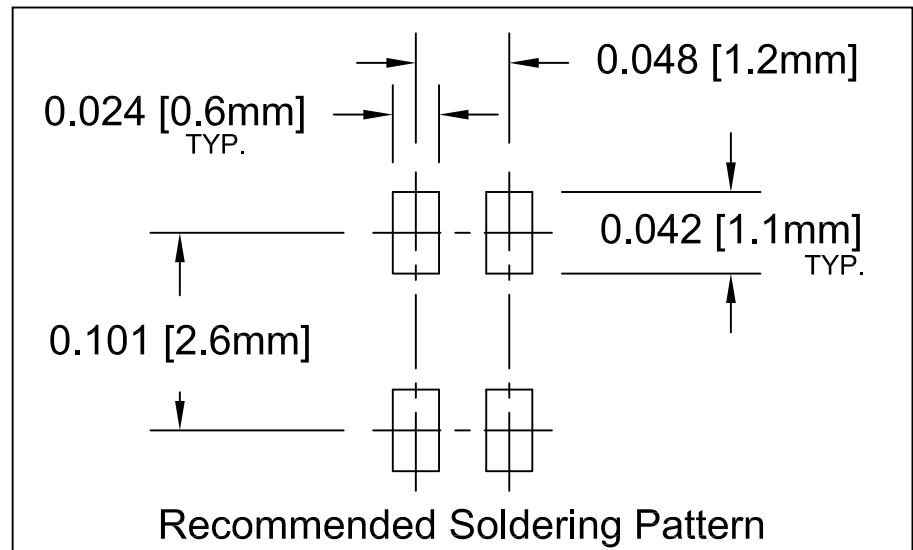
REV.	DESCRIPTION	DATE	APPROVED
F	Engineering Update w/o Changes	03/10/04	M. C.
G	Image Orientation Update w/o Changes	01/12/05	M. C.
H	Corrected Polarity ID	12/20/05	M. C.
J	Corrected Emitted Colors and Tape & Reel Polarity	01/18/07	M. C.
K	Corrected Color ID on pg. 4.	12/17/08	M. C.



SM0807XBCXX



SM0807XBCXX-RP



RoHS Compliant

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

NOTE:

1. MSL LEVEL 4 - LEDs shipped in ESD packaging with dessicant packets and Moisture Indicating Strip.

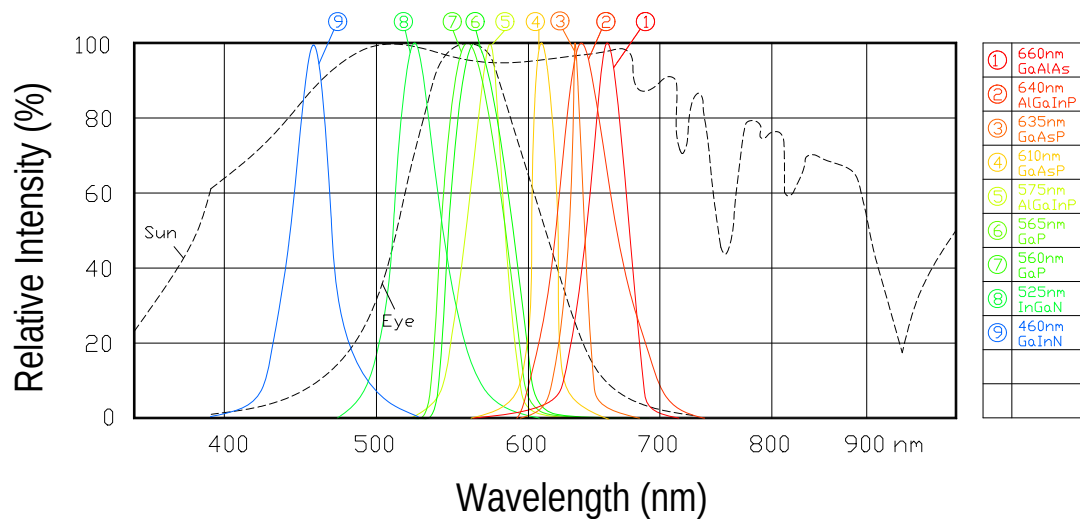
STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED)		 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
DECIMALS	ANGULAR		
.X ± .1	X° ± 1°		
.XX ± .02			
.XXX ± .010		TITLE: SMD LED, SM0807 BI-COLOR	
DESIGNED: David Green	DATE: 11/19/02	PART NO: SM0807XBCXX	REVISION: K
CHECKED: M. Chen	DATE: 11/19/02	CAGE CODE : 32559	SHEET # 1 OF 4
CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.			

REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET#1.		

LED Part No.	Chip			Lens Appearance	Absolute Max. Ratings				Electro-Optical Data @ 20m a			Viewing Angle 2 Θ ½ (Deg)
	Material	Peak Wave Length λp(nm)	Emitted Color		Δλ (nm)	Pd (mW)	If (mA)	Peak If(mA)	Vf (V)		Iv (mcd)	
									TYP	MAX	TYP	
SM0807BC-RP	GaAlAs	660	Red	WHITE DIFFUSED	25	100	30	150	1.8	2.3	19.0	120
	GaP	565	Green		32	100	30	150	2.1	2.5	13.0	120
SM0807SBC	AlGaInP	640	Super Red	WHITE DIFFUSED	23	100	30	150	1.9	2.4	52.0	120
	AlGaInP	575	Super Green		18	100	30	150	2.1	2.6	37.0	120
SM0807BC-H/G	GaAs	635	HE Red	WHITE DIFFUSED	44	100	30	150	2.0	2.5	10.0	120
	GaP	565	Green		30	100	30	150	2.2	2.7	16.0	120
SM0807BC-A/G	GaAsP	610	Amber	WHITE DIFFUSED	40	100	30	150	2.0	2.5	11.0	120
	GaP	565	Green		30	100	30	150	2.2	2.7	16.0	120
SM0807BC	GaAlAs	660	Red	WHITE DIFFUSED	24	100	30	150	1.8	2.3	20.0	120
	GaP	560	Green		29	100	30	150	2.3	2.7	11.0	120

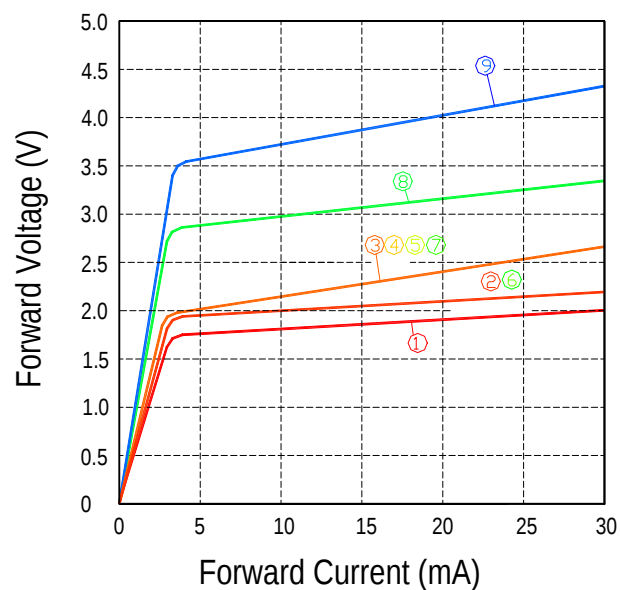
STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) <u>±10% ALL VALUES</u> <u>ANGULAR</u> $X^\circ \pm 5^\circ$		 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
		 TITLE: SMD LED, SM0807 BI-COLOR	
DESIGNED:	DATE:	PART NO:	REVISION:
David Green	11/19/02	SM0807XBCXX	K
CHECKED:	DATE:	CAGE CODE : 32559	SHEET # 2 OF 4
M. Chen	11/19/02	CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.	

Relative Intensity vs. Wavelength

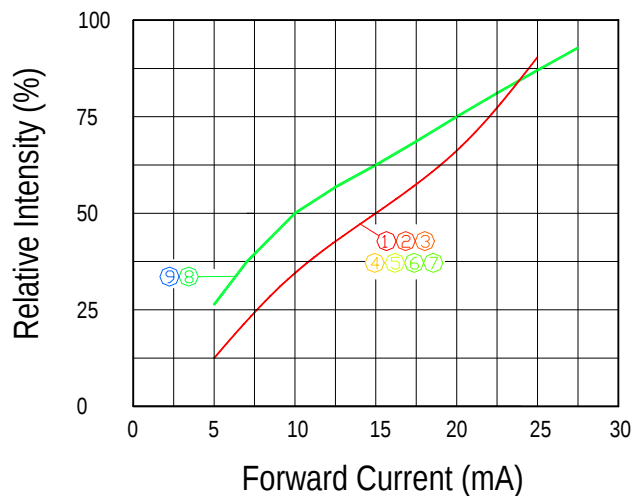


REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET#1.		

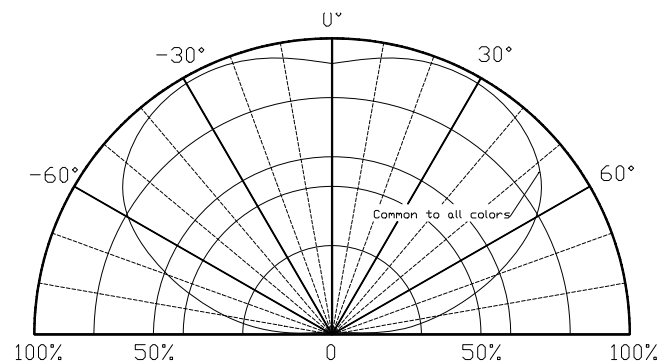
Forward Voltage vs. Forward Current

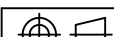


Relative Intensity vs. Forward Current

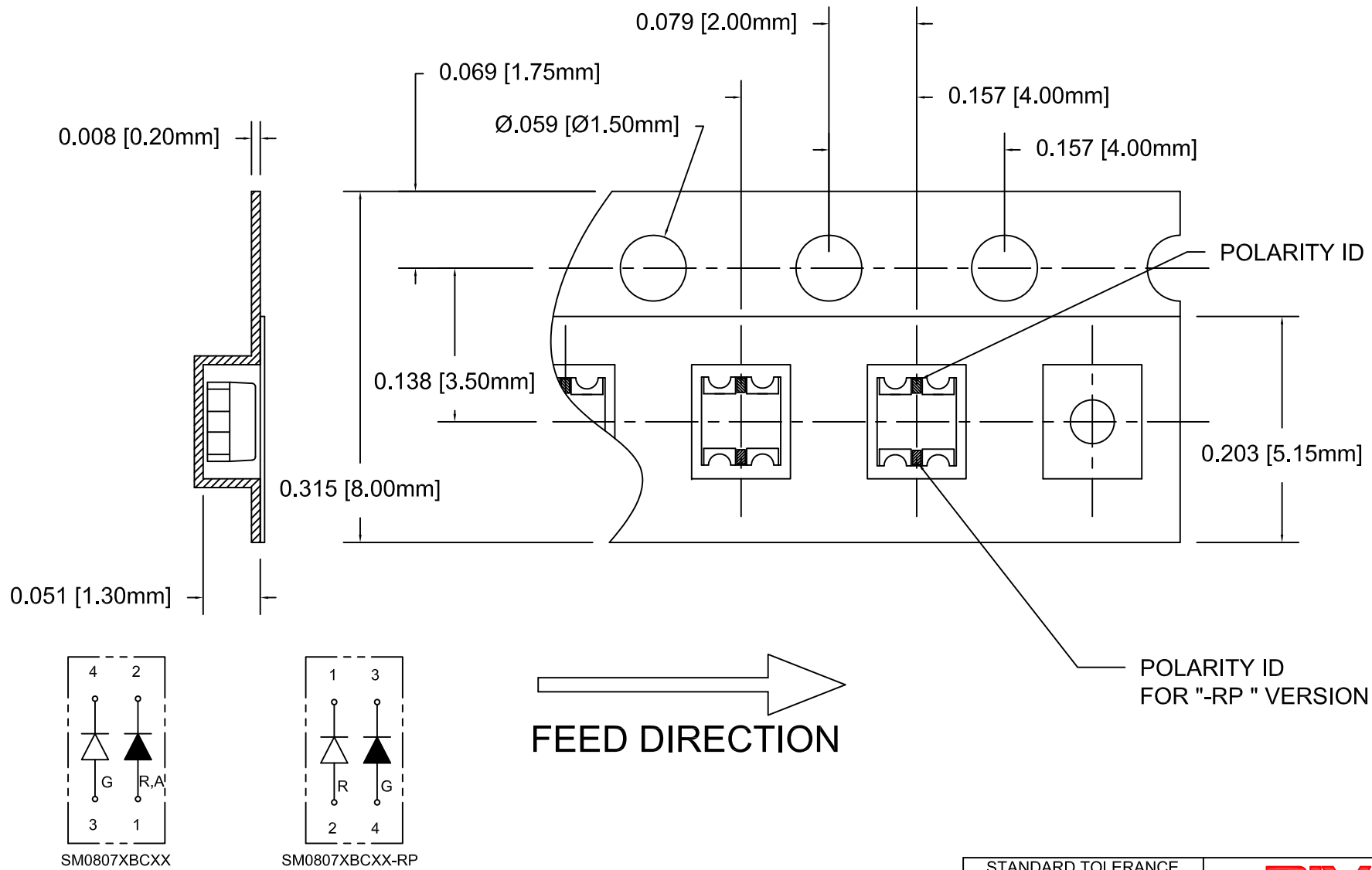


RADIATION DIAGRAM



STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) <u>±10% ALL VALUES</u> <u>ANGULAR</u> X° ± 5°		BIVAR® 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
		TITLE: SMD LED, SM0807 BI-COLOR	
DESIGNED: David Green	DATE: 11/19/02	PART NO: SM0807XBCXX	REVISION: K
CHECKED: M. Chen	DATE: 11/19/02	CAGE CODE : 32559	SHEET # 3 OF 4
CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.			

REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET#1.		



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

STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED)		BIVAR® 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
<u>DECIMALS</u>	<u>ANGULAR</u>		
.X ± .1	X° ± 1°		TITLE: SMD LED, SM0807 BI-COLOR
.XX ± .02			
.XXX ± .010			
DESIGNED: David Green	DATE: 11/19/02	PART NO: SM0807XBCXX	
CHECKED: M. Chen	DATE: 11/19/02	CAGE CODE : 32559	SHEET # 4 OF 4
CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.			

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

BIVAR:

[SM0807BC](#) [SM0807BC-A/G](#) [SM0807BC-H/G](#)