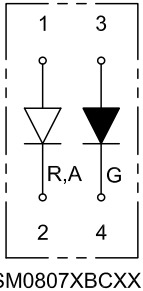
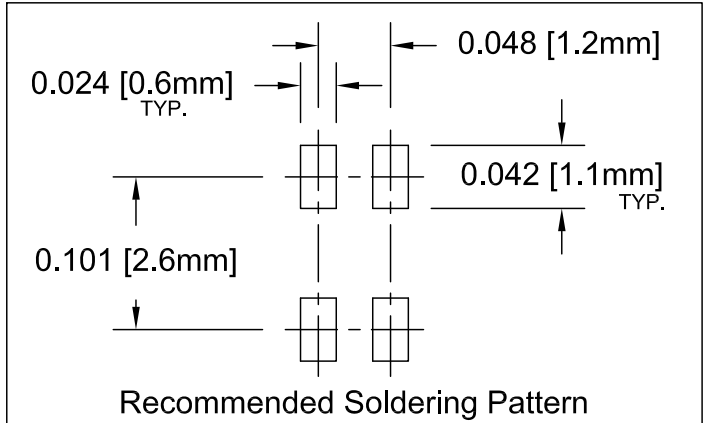
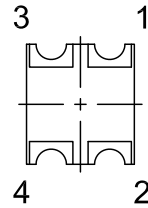
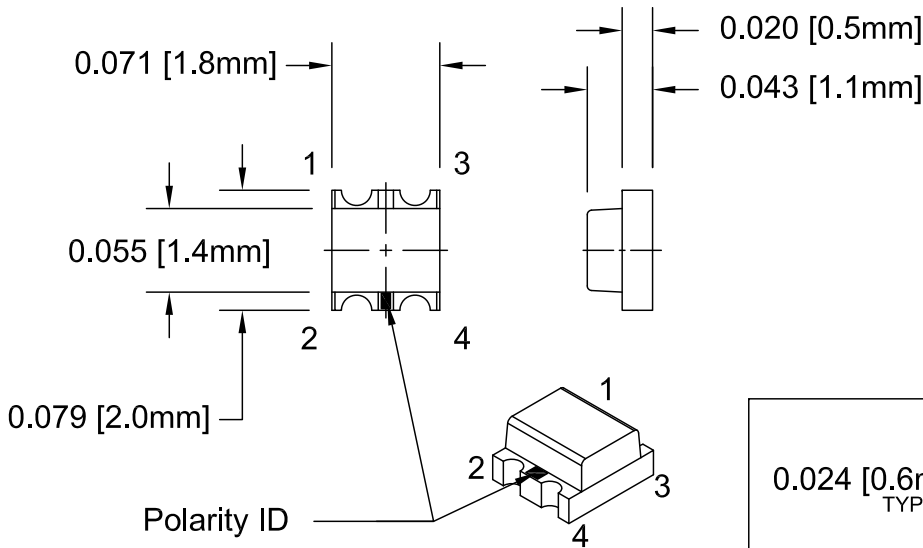
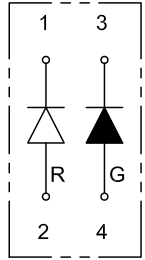


REV.	DESCRIPTION	DATE	APPROVED
F	Engineering Update w/o Changes	03/10/04	M. C.
G	Image Orientation Update w/o Changes	01/12/05	M. C.
H	Corrected Polarity ID	12/20/05	M. C.
J	Corrected Emitted Colors and Tape & Reel Polarity	01/18/07	M. C.
K	Corrected Color ID on pg. 4.	12/17/08	M. C.



SM0807XBCXX



SM0807XBCXX-RP



RoHS Compliant

### ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

REVERSE VOLTAGE	5V
REVERSE CURRENT	100µA
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 desiccant packets and Moisture Indicating Strip.

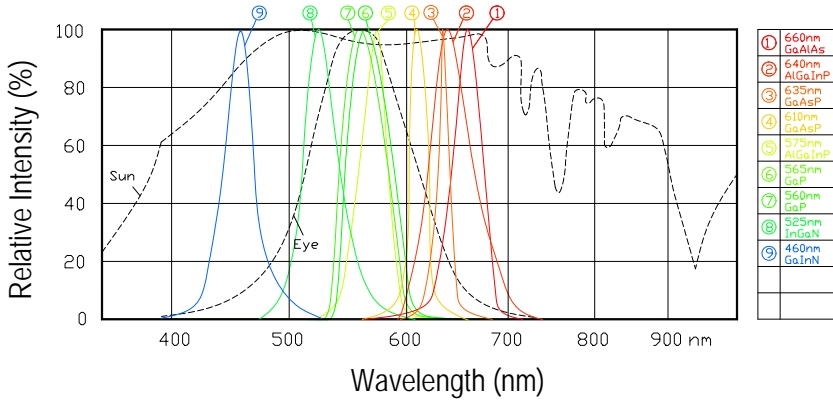
STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED)		 4 THOMAS, IRVINE, CA, 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
DECIMALS	ANGULAR		
.X ±.1	X° ±1°	<b>TITLE:</b> SMD LED, SM0807 BI-COLOR	
.XX ±.02			
.XXX ±.010		<b>REVISION:</b> K	
DESIGNED: David Green	DATE: 11/19/02	<b>PART NO:</b> SM0807XBCXX	
CHECKED: M. Chen	DATE: 11/19/02	<b>CAGE CODE :</b> 32559	<b>SHEET # 1 OF 4</b>
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 2θ 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

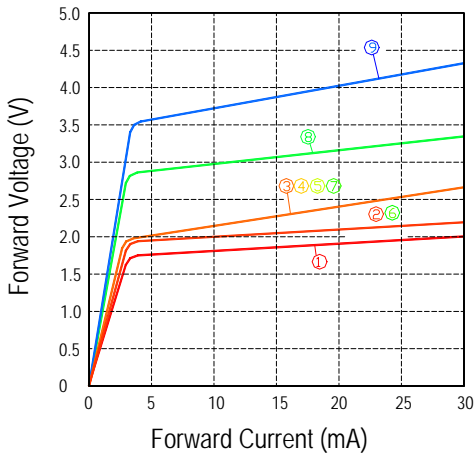
STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) ±10% ALL VALUES		ANGULAR X° ±5°		 <b>BIVAR</b> 4 THOMAS, IRVINE, CA, 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
				TITLE: SMD LED, SM0807 BI-COLOR	
DESIGNED: <b>David Green</b>	DATE: <b>11/19/02</b>	PART NO: <b>SM0807XBCXX</b>		REVISION: <b>K</b>	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

Relative Intensity vs. Wavelength

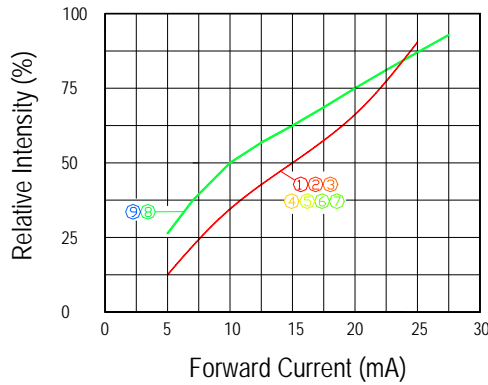


REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET#1.		

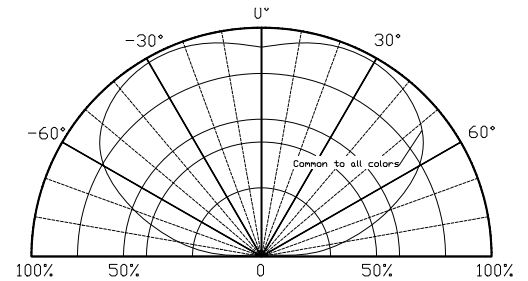
Forward Voltage vs. Forward Current



Relative Intensity vs. Forward Current

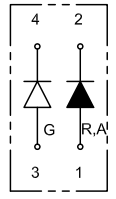
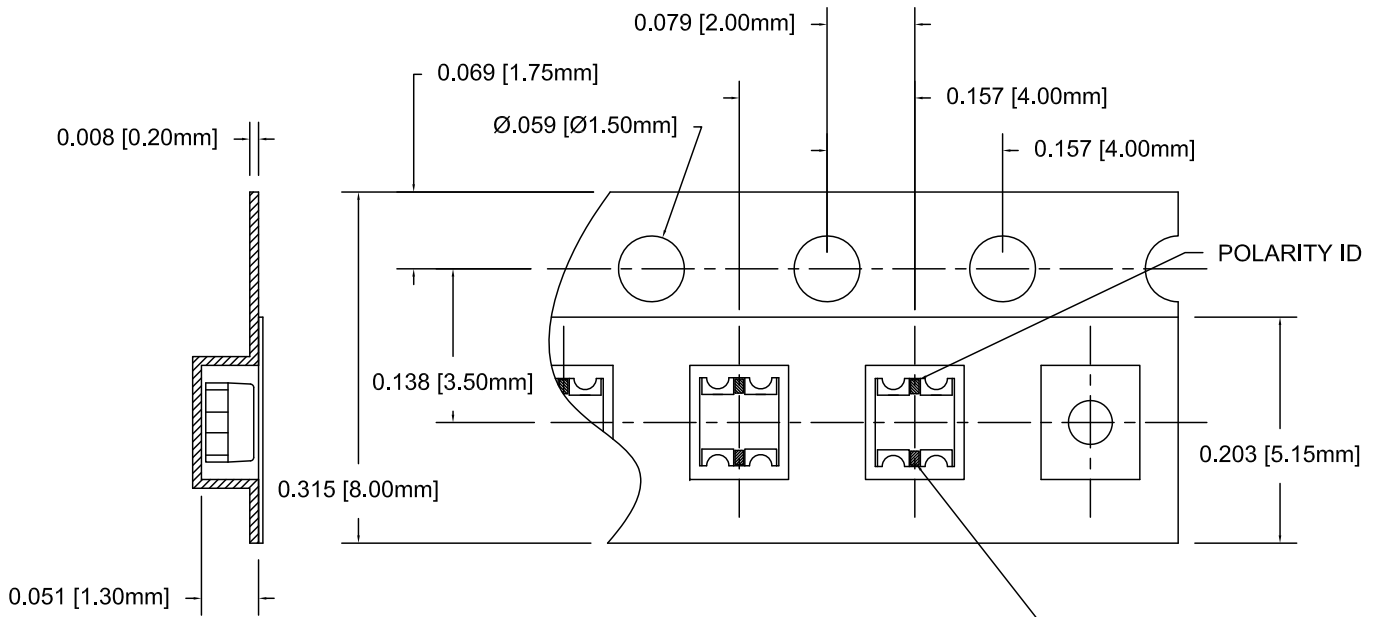


RADIATION DIAGRAM

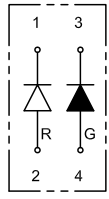


STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) ±10% ALL VALUES		ANGULAR X° ± 5°	
		<b>BIVAR</b> <sup>®</sup>	
		4 THOMAS, IRVINE, CA, 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
		TITLE: SMD LED, SM0807 BI-COLOR	
DESIGNED: <b>David Green</b>	DATE: <b>11/19/02</b>	PART NO.: <b>SM0807XBCXX</b>	REVISION: <b>K</b>
CHECKED: <b>M. Chen</b>	DATE: <b>11/19/02</b>	CAGE CODE : <b>32559</b>	SHEET # <b>3 OF 4</b>
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REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET#1.		



SM0807XBCXX



SM0807XBCXX-RP



FEED DIRECTION

POLARITY ID FOR "-RP" VERSION

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

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