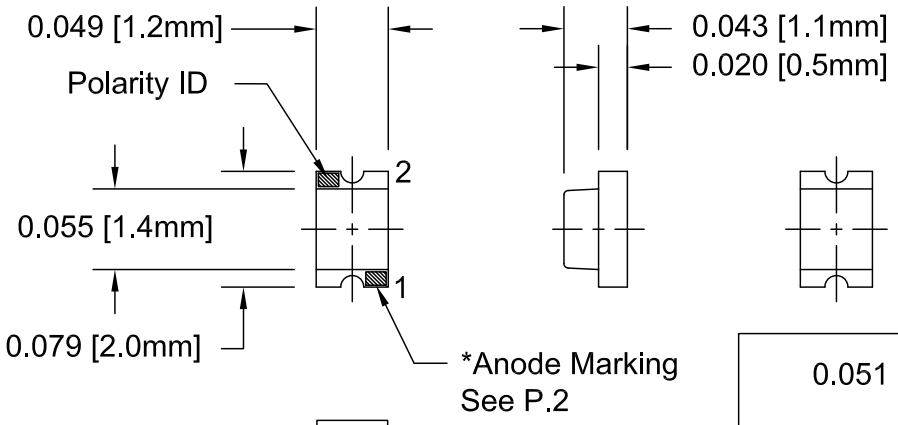
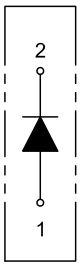
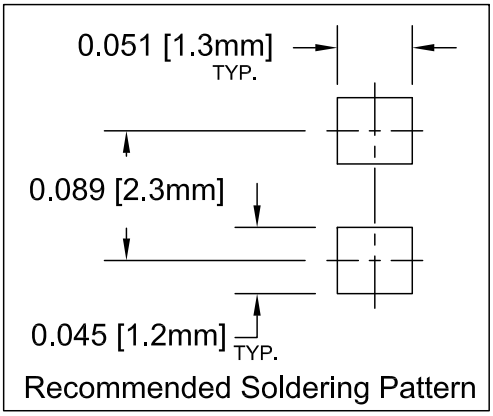
REV.	DESCRIPTION	DATE	APPROVED
F	Changed SM0805UGC Spec, p.2	04/17/06	M. C.
G	Updated SM0805UOC Spec, p.2	09/06/06	M. C.
H	Updated SM0805UGC Spec, p.2	02/14/07	M. C.
J	Updated Anode Marking for SM0805HC/SRC	05/21/08	M. C.
K	Added PCS/Reel Table	07/02/08	M. C.
L	Updated Reel Qty's	01/14/09	T. Y.







ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

REVERSE VOLTAGE	5V
REVERSE CURRENT	100uA
OPERATING TEMPERATURE RANGE	−20°C – 80°C
STORAGE TEMPERATURE	−20°C – 80°C
LEAD SOLDERING TEMPERATURE(1/16" FROM BODY)	260°C FOR 5 SECONDS

STANDARD TOLERANCE
(UNLESS OTHERWISE SPECIFIED)

DECIMALS	ANGULAR
.X ± .1	X° ± 1°
.XX ± .02	
.XXX ± .010	

BIVAR®
4 THOMAS, IRVINE, CA. 92618
TEL: (949) 951-8808 FAX: (949) 951-3974

TITLE: SMD LED, SM0805

DESIGNED:	DATE:	PART NO:	REVISION:
David Green	01/14/04	SM0805XXC	L
CHECKED: M. Chen	DATE: 01/14/04	CAGE CODE : 32559	SHEET # 1 OF 4

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REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET#1.		

LED Part No.	Chip			Lens Appearance	Absolute Max. Ratings				Electro-Optical Data @ 20mA			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	
SM0805BWC	GaN/SiC	430	SUPER BLUE	WATER CLEAR	65	150	30	120	4.0	4.5	20.0	140
SM0805UBWC	GaInN	470	ULTRA BLUE	WATER CLEAR	65	150	30	120	4.0	4.5	120.0	140
SM0805UGC	GaP	525	ULTRA GREEN	WATER CLEAR	20	120	30	120	3.5	4.0	200.0	140
SM0805PGC	InGaN	555	PURE GREEN	WATER CLEAR	25	100	30	120	2.1	2.6	2.0	140
SM0805GC	GaP	568	GREEN	WATER CLEAR	30	80	30	125	2.2	2.7	9.0	140
SM0805YC	GaAsP	585	YELLOW	WATER CLEAR	35	100	30	120	2.1	2.6	15.0	140
SM0805UYC	AlGaInP	588	ULTRA YELLOW	WATER CLEAR	15	100	30	120	2.0	2.6	60.0	140
SM0805AC	GaAsP	610	AMBER	WATER CLEAR	35	100	30	120	2.0	2.6	20.0	140
SM0805UOC	AlGaInP	625	ULTRA ORANGE	WATER CLEAR	17	100	30	120	2.0	2.6	75.0	140
SM0805HC*	GaAsP	660	HE RED	WATER CLEAR	45	100	30	120	1.9	2.6	13.0	140
SM0805SRC*	GaAlAs	660	SUPER RED	WATER CLEAR	20	60	30	120	1.7	2.6	28.0	140
SM0805SRC-1*	GaAlAs	660	SUPER RED	WATER CLEAR	20	60	30	120	1.8	2.6	25.0	140
SM0805URC	GaAlAs	660	ULTRA RED	WATER CLEAR	20	80	30	120	2.0	2.6	40.0	140
SM0805RC	GaP	700	RED	WATER CLEAR	90	50	15	50	2.3	2.6	3.0	140
SM0805UWC	GaInN	X=.29 Y=.30	ULTRA WHITE	WATER CLEAR	-	150	30	120	3.5	4.2	135.0	140

*ANODE MARKING

STANDARD TOLERANCE
(UNLESS OTHERWISE SPECIFIED)
±10% ALL VALUES ANGULAR
X° ±5°

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TITLE: SMD LED, SM0805

DESIGNED: David Green DATE: 01/14/04

PART NO: SM0805XXC REVISION: L

CHECKED: M. Chen DATE: 01/14/04

CAGE CODE : 32559 SHEET # 2 OF 4

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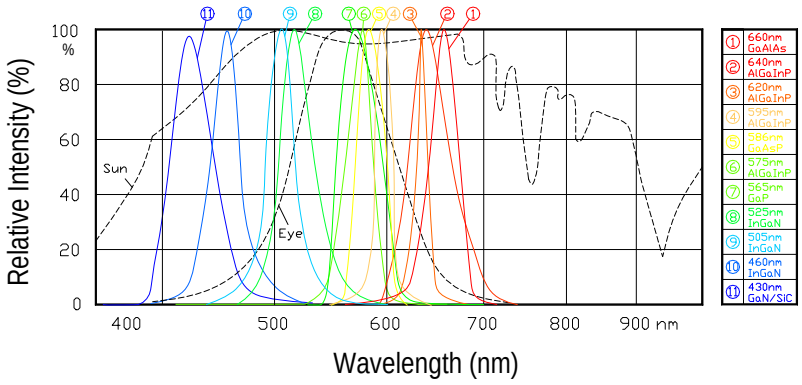
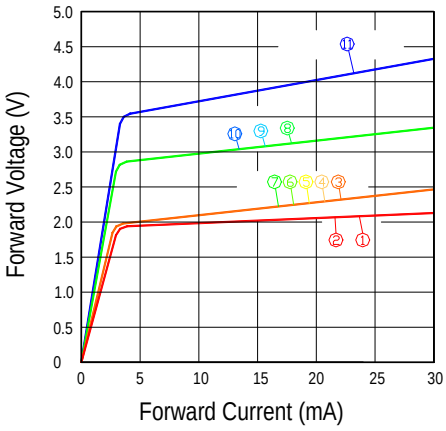
REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET#1.		

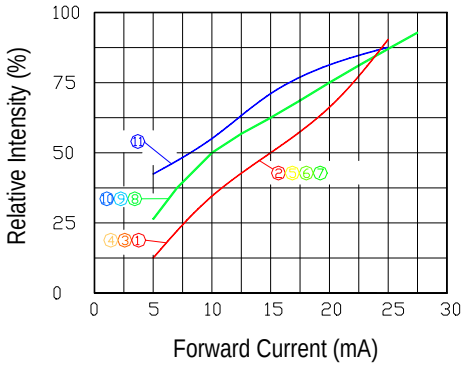
Relative Intensity vs. Wavelength

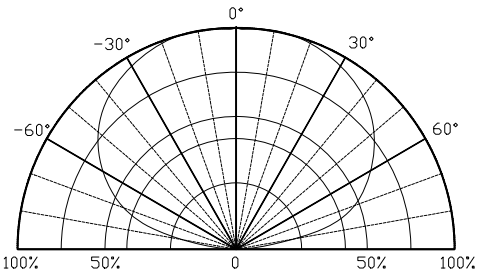


Forward Voltage vs. Forward Current



Relative Intensity vs. Forward Current





STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) ±10% ALL VALUES ANGULAR X° ±5°		BIVAR® 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974
		TITLE: SMD LED, SM0805
DESIGNED: David Green	DATE: 01/14/04	PART NO: SM0805XXC REVISION: L
CHECKED: M. Chen	DATE: 01/14/04	CAGE CODE : 32559 SHEET # 3 OF 4
		CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.

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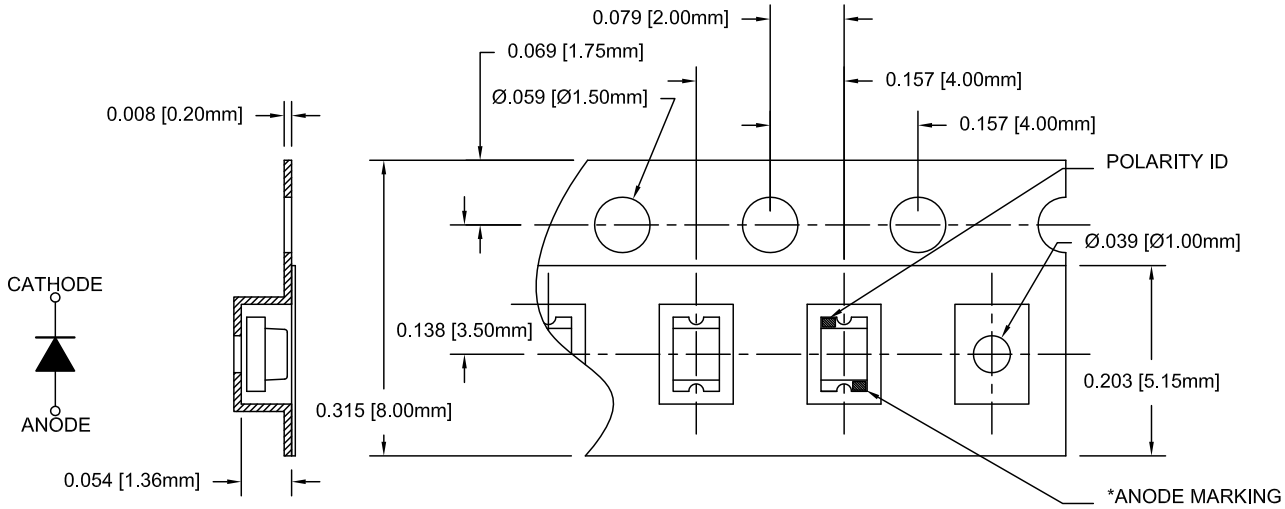
REV.	DESCRIPTION	DATE	APPROVED
	See Sheet #1.		



LED Part No.	PCS/Reel
SM0805BWC	3000
SM0805UBWC	3000
SM0805UGC	3000
SM0805PGC	4000
SM0805GC	3000
SM0805YC	4000
SM0805UYC	4000
SM0805AC	3000
SM0805UOC	4000
SM0805HC*	3000
SM0805SRC*	3000
SM0805SRC-1*	3000
SM0805URC	3000
SM0805RC	3000
SM0805UWC	4000

1. UNLESS OTHERWISE SPECIFIED,
PACKAGING TO COMPLY WITH EIA-481-B

STANDARD TOLERANCE
(UNLESS OTHERWISE SPECIFIED)
DECIMALS: .X ± .1, .XX ± .02, .XXX ± .010
ANGULAR: X° ± 1°

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TEL: (949) 951-8808 FAX: (949) 951-3974

TITLE: SMD LED, SM0805

DESIGNED: David Green DATE: 01/14/04

PART NO: SM0805XXC REVISION: L

CHECKED: M. Chen DATE: 01/14/04

CAGE CODE : 32559 SHEET # 4 OF 4

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