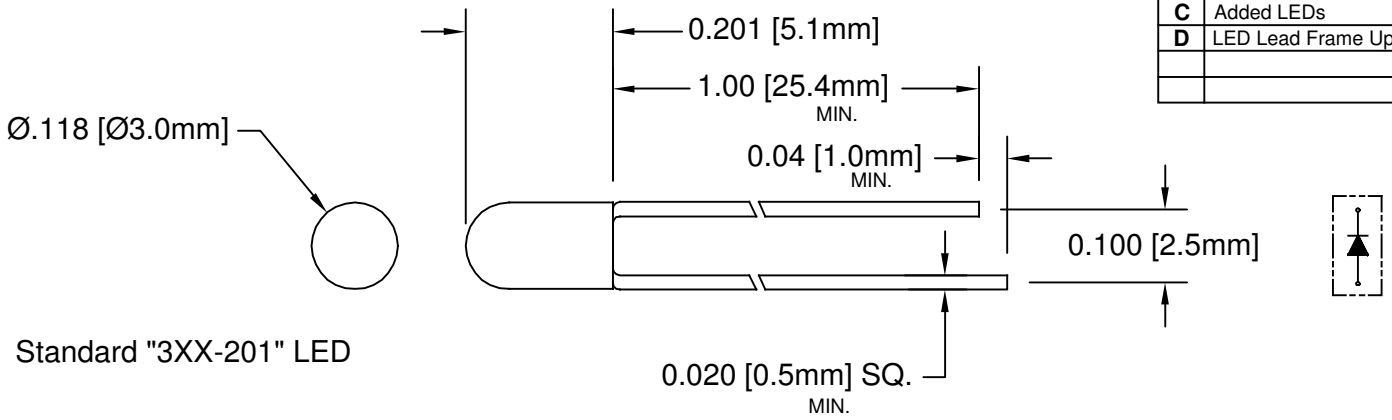
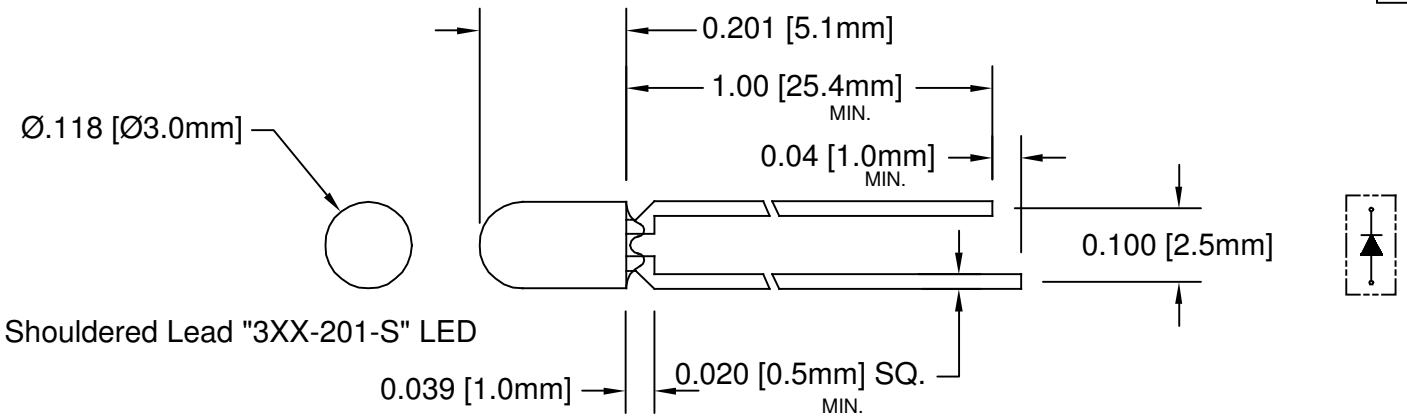
REV.	DESCRIPTION	DATE	APPROVED
B	Engineering Update w/o Changes	03/01/04	M. C.
C	Added LEDs	12/13/04	M. C.
D	LED Lead Frame Update. See EMN-3XX.	09/11/06	M. C.



Standard "3XX-201" LED

Recommended Mounting
Hole Size = Ø.032 $^{+.003}_{-.002}$



Shouldered Lead "3XX-201-S" LED

NOTE: Add suffix -LL for long lead.
Changes 1.00 Min. to 1.57 Min.

ABSOLUTE MAXIMUM RATINGS (Ta=25° C)

REVERSE VOLTAGE	5V
REVERSE CURRENT	100uA
OPERATING TEMPERATURE RANGE	−40° C – 85° C
STORAGE TEMPERATURE	−40° C – 100° C
LEAD SOLDERING TEMPERATURE(1/16" FROM BODY)	260° C FOR 5 SECONDS

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

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

TITLE: T-1 (3mm) EXTENDED PROFILE LED

DESIGNED:	DATE:	PART NO:	REVISION:
David Green	04/03/03	3XX-201	D
CHECKED: M. Chen	DATE: 04/03/03	CAGE CODE : 32559	SHEET # 1 OF 2

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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) TYP	Vf (V) MAX	Iv (mcd) TYP	
3BWC-201	GaN/SiC	430	BLUE	WATER CLEAR	65	150	25	70	4.0	4.5	50	30
3BWD-201	GaN/SiC	430	BLUE	DIFFUSED	65	150	25	70	4.0	4.5	20	45
3BWT-201	GaN/SiC	430	BLUE	TINTED	65	150	25	70	4.0	4.5	50	30
3PGC-201	GaP/GaP	555	PURE GREEN	WATER CLEAR	25	80	30	150	2.2	2.6	12	30
3PGD-201	GaP/GaP	555	PURE GREEN	DIFFUSED	25	80	30	150	2.2	2.6	5	45
3PGT-201	GaP/GaP	555	PURE GREEN	TINTED	25	80	30	150	2.2	2.6	12	30
3GC-201	GaP/GaP	565	GREEN	WATER CLEAR	30	80	30	150	2.2	2.6	65	30
3GD-201	GaP/GaP	565	GREEN	DIFFUSED	30	80	30	150	2.2	2.6	30	45
3GT-201	GaP/GaP	565	GREEN	TINTED	30	80	30	150	2.2	2.6	65	30
3SGC-201	GaP/GaP	568	SUPER GREEN	WATER CLEAR	30	100	30	150	2.2	2.6	150	30
3SGD-201	GaP/GaP	568	SUPER GREEN	DIFFUSED	30	100	30	150	2.2	2.6	75	35
3YC-201	GaAsP/GaP	585	YELLOW	WATER CLEAR	35	80	30	150	2.1	2.6	55	30
3YD-201	GaAsP/GaP	585	YELLOW	DIFFUSED	35	80	30	150	2.1	2.6	20	45
3YT-201	GaAsP/GaP	585	YELLOW	TINTED	35	80	30	150	2.1	2.6	55	30
3SYC-201	GaAsP/GaP	585	SUPER YELLOW	WATER CLEAR	35	80	30	150	2.1	2.6	80	30
3AC-201	GaAsP/GaP	610	AMBER	WATER CLEAR	35	80	30	150	2.2	2.6	65	30
3AD-201	GaAsP/GaP	610	AMBER	DIFFUSED	35	80	30	150	2.2	2.6	30	45
3AT-201	GaAsP/GaP	610	AMBER	TINTED	35	80	30	150	2.2	2.6	65	30
3HC-201	GaAsP/GaP	635	HE RED	WATER CLEAR	45	80	30	150	2.0	2.6	100	30
3HD-201	GaAsP/GaP	635	HE RED	DIFFUSED	45	80	30	150	2.0	2.6	30	45
3HT-201	GaAsP/GaP	635	HE RED	TINTED	45	80	30	150	2.0	2.6	100	30
3RC-201	GaAsP/GaAs	655	RED	WATER CLEAR	40	80	40	200	1.7	2.0	18	30
3RD-201	GaAsP/GaAs	655	RED	DIFFUSED	40	80	40	200	1.7	2.0	6	45
3RT-201	GaAsP/GaAs	655	RED	TINTED	40	80	40	200	1.7	2.0	18	30
3SRC-201	GaAsP/GaAs	660	SUPER RED	WATER CLEAR	20	60	30	150	1.7	2.6	200	30
3SRD-201	GaAsP/GaAs	660	SUPER RED	DIFFUSED	20	80	30	150	1.7	2.6	60	35

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

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TITLE: T-1 (3mm) EXTENDED PROFILE LED

DESIGNED: David Green DATE: 04/03/03

PART NO: 3XX-201 REVISION: D

CHECKED: M. Chen DATE: 04/03/03

CAGE CODE : 32559 SHEET # 2 OF 2

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