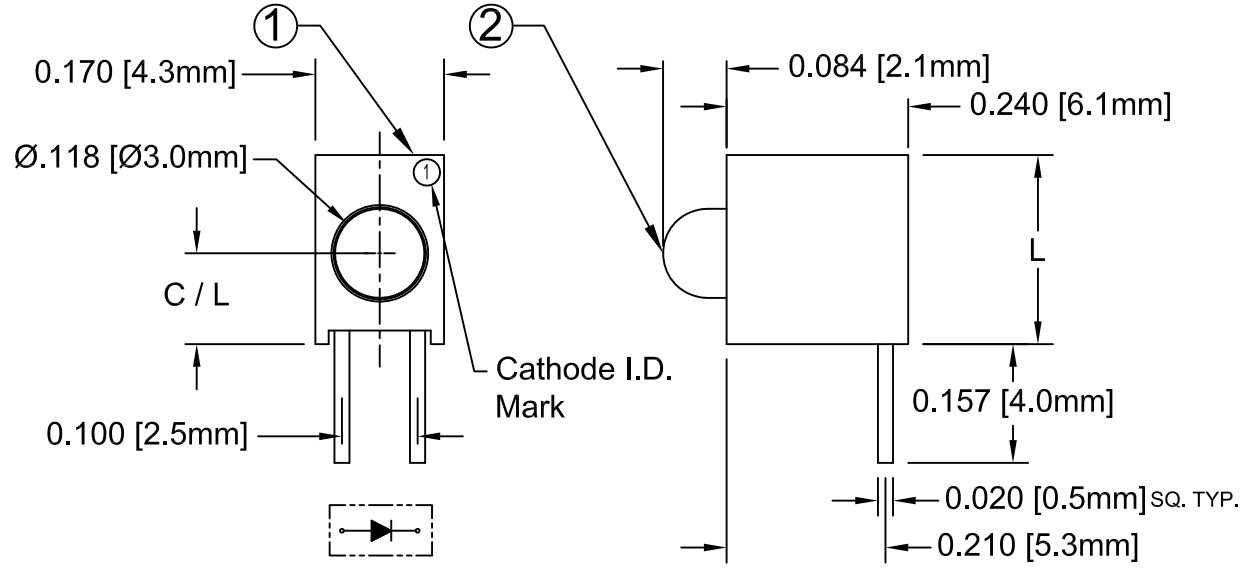
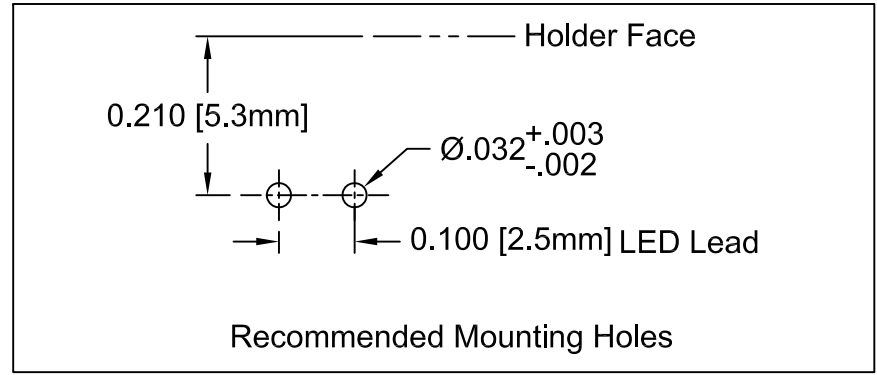


ITEM	Q'TY	PART NUMBER	PART DESCRIPTION
1	1	H-131C-1-XXX	T-1 (3mm) LED Holder, 90° Mount, Var. C/L
2	1	3XX-S	T-1 (3mm) N-Flange Shouldered LED, See Page 2

REV.	DESCRIPTION	DATE	APPROVED
C	Add Clear Low Current LED on Page 2	01/31/07	M. C.
D	LED Package Change to 3XX-S LEDs.	10/26/07	M. C.
E	Corrected Page 2	12/14/07	M. C.
F	Updated H131CRDL-XXX Spec, P. 2	05/01/08	M. C.
G	Added H131CSRT-XXX Spec, P. 2	01/27/09	T. Y.





EXAMPLE:  
**H131CRD-160\***  
 Centerline "C/L"  
 LED Color & Lens Appearance.  
 Omit 3 when ordering.  
 Series \* XXX = Centerline "C/L"



Available Centerlines		
XXX	C/L	L
120	.120 (3.0)	.250 (6.4)
140	.140 (3.6)	.270 (6.9)
160	.160 (4.1)	.290 (7.4)
180	.180 (4.6)	.310 (7.9)

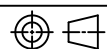
### ABSOLUTE MAXIMUM RATINGS (Ta=25° C)

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)		 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
DECIMALS	ANGULAR		
.X ± .1	X° ± 1°		<b>TITLE:</b> T-1 (3MM) 90° SINGLE-LEVEL VAR. C/L LED ASSY
.XX ± .02			
.XXX ± .010			
DESIGNED: <b>David Green</b>	DATE: <b>06/11/03</b>	<b>PART NO:</b> H131CXX-XXX	REVISION: <b>G</b>
CHECKED: <b>M. Chen</b>	DATE: <b>06/11/03</b>	<b>CAGE CODE :</b> 32559	<b>SHEET # 1 OF 2</b>
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REV.	DESCRIPTION	DATE	APPROVED
	SEE SHEET#1.		

LED Assy. No.	Peak Wave Length $\lambda_p$ (nm)	Emitted Color	Lens Appearance	Electro-Optical Data				Viewing Angle $2\theta \frac{1}{2}$ (Deg)	LED P/N
				If (mA)	Vf (V)		Iv (mcd)		
				Typ.	Typ.	Max.	Typ.		
<b>STANDARD</b>				<b>Data @ 20mA</b>					
H131CBWD-XXX	430	BLUE	DIFFUSED	20	4.0	4.5	10	40	3BWD-S
H131CGD-XXX	568	GREEN	DIFFUSED	20	2.1	2.8	25	40	3GD-S
H131CYD-XXX	590	YELLOW	DIFFUSED	20	2.0	2.8	20	40	3YD-S
H131CHD-XXX	625	HE RED	DIFFUSED	20	2.0	2.8	30	40	3HD-S
H131CRD-XXX	700	RED	DIFFUSED	20	2.1	2.8	2	40	3RD-S
H131CSR-XXX	645	SUPER RED	DIFFUSED	20	1.7	2.4	40	40	3SRD-S
H131CSRT-XXX	645	SUPER RED	TINTED	20	1.7	2.4	60	30	3SRT-S
<b>LOW CURRENT</b>				<b>Data @ 2mA</b>					
H131CACL-XXX	610	AMBER	WATER CLEAR	2	1.9	2.2	11.5	30	3ACL-S
H131CBWCL-XXX	430	BLUE	WATER CLEAR	2	3.5	4.0	10	30	3BWCL-S
H131CGCL-XXX	568	GREEN	WATER CLEAR	2	2.1	2.6	4	30	3GCL-S
H131CHCL-XXX	625	HE RED	WATER CLEAR	2	2.0	2.6	4	30	3HCL-S
H131CPGCL-XXX	555	PURE GREEN	WATER CLEAR	2	2.1	2.6	1	30	3PGCL-S
H131CRCL-XXX	655	RED	WATER CLEAR	2	1.9	2.2	1.9	30	3RCL-S
H131CYCL-XXX	590	YELLOW	WATER CLEAR	2	2.0	2.6	4	30	3YCL-S
H131CGDL-XXX	568	GREEN	DIFFUSED	2	2.1	2.6	2	40	3GDL-S
H131CYDL-XXX	590	YELLOW	DIFFUSED	2	2.0	2.6	2	40	3YDL-S
H131CHDL-XXX	625	HE RED	DIFFUSED	2	2.0	2.6	2.5	40	3HDL-S
H131CRDL-XXX	700	RED	DIFFUSED	2	2.1	2.6	0.5	40	3RDL-S
<b>5 VOLT</b>				<b>Data @ 5V</b>					
H131CGD5V-XXX	568	GREEN	DIFFUSED	8	-	5.0	25	40	3GD5V-S
H131CYD5V-XXX	590	YELLOW	DIFFUSED	8	-	5.0	20	40	3YD5V-S
H131CHD5V-XXX	625	HE RED	DIFFUSED	8	-	5.0	30	40	3HD5V-S

STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) $\pm 10\%$ ALL VALUES				<b>BIVAR</b> <sup>®</sup> 4 THOMAS, IRVINE, CA. 92618 TEL: (949) 951-8808 FAX: (949) 951-3974	
ANGULAR $X^\circ \pm 5^\circ$					
DESIGNED: <b>David Green</b>	DATE: <b>06/11/03</b>	TITLE: T-1 (3MM) 90° SINGLE-LEVEL VAR. C/L LED ASSY		PART NO: <b>H131CXX-XXX</b>	REVISION: <b>G</b>
CHECKED: <b>M. Chen</b>	DATE: <b>06/11/03</b>	CAGE CODE : 32559		SHEET # 2 OF 2	
CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.					

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