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### Features / Options

- ▶ Bi-Color Styles Optional
- ▶ State-of-the-Art, LED Technology
- ▶ Choice of LED Colors and Lens Finishes
- ▶ Insulated Lead Lengths Optional
- ▶ Easy installation through panel

### Applications / Uses

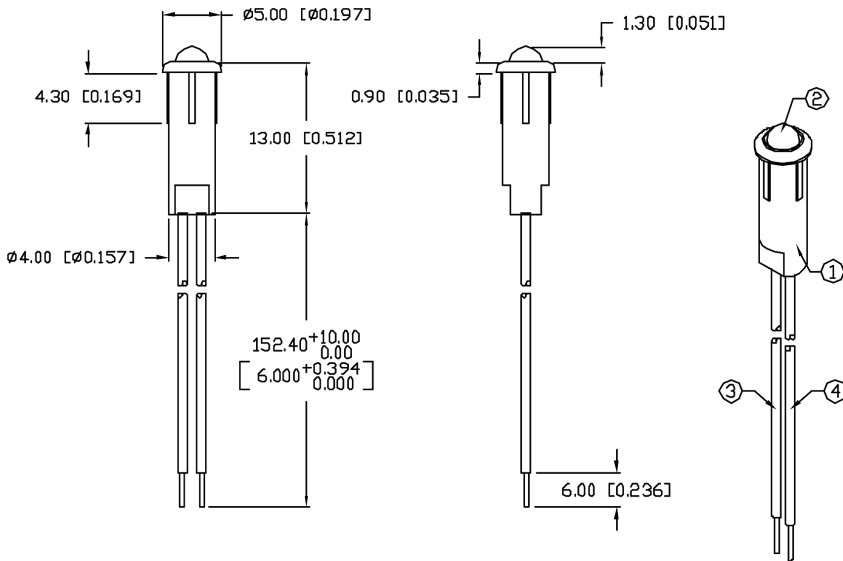
- ▶ Front Panel Status Indicators
- ▶ Alarm/Warning Indicators
- ▶ Front Panel Circuit Fault Indicators
- ▶ Instrument Control Panels
- ▶ Medical Diagnostics Indicators
- ▶ Industrial Automation Control Panels

Part Number:	Brightness	Material	Emitted Color	Wavelength	Intensity	View Angle	Voltage
SSI-LXH312BID-150	STANDARD	GaAsP	Red	635	10	80	3-15V
SSI-LXH312GD-150	STANDARD	GaP	Green	565	30	60	2.1
SSI-LXH312GD5V-150	STANDARD	GaP	Green	565	20	60	5.0
SSI-LXH312HGW-150	STANDARD	GaP	Red/ Green	695/565	4/8	60	2.0/2.2
SSI-LXH312ID-150	STANDARD	GaAsP	Red	635	30	60	2.0
SSI-LXH312ID-5V150	STANDARD	GaAsP	Red	635	6	60	5.0
SSI-LXH312SID-150	HIGH	AlInGaP	Red	636	100	60	2.0
SSI-LXH312SOD-150	HIGH	AlInGaP	Orange	610	100	60	2.0
SSI-LXH312SRD-150	HIGH	GaAIAs	Red	660	80	60	1.7
SSI-LXH312SUGD-150	HIGH	AlInGaP	Green	574	50	60	2.2
SSI-LXH312SYD-150	HIGH	AlInGaP	Yellow	590	100	60	2.0

SSI-LXH312USBD-150		HIGH	InGaN	Blue	470	60	60	3.5
SSI-LXH312YD-150		STANDARD	GaAsP	Yellow	585	30	60	2.1
SSI-LXH312YD5V-150		STANDARD	GaAsP	Yellow	585	6	60	5.0

UNCONTROLLED DOCUMENT

PART NUMBER		REV.
SSI-LXH312GD-150		D
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	ADDED TO NOTE #3.	10.5.92
B	ADDED TO NOTE #3.	5.8.95
C	E.C.N. #10178.	6.5.96
D	E.C.N. #10BRDR. & REDRAWN.	7.12.01



- NOTES:
- SSH-LXH3121 HOLDER, BLACK NYLON 94-V.
  - SSL-LX3044GD LED, LEADS CUT TO 5mm.
  - ANODE LEAD: LXP-WST26ROTC, RED INSULATED LEAD, 26 AWG, CUT 158mm LONG, STRIP 3.0mm & 6.0mm.
  - CATHODE LEAD: LXP-WST26BLTOC, BLACK INSULATED LEAD, 26 AWG, CUT 158mm LONG, STRIP 3.0mm & 6.0mm.
  - MOUNTING HOLE:  $\phi 0.170^{\circ}-\phi 0.174^{\circ}$

ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^{\circ}\text{C}$   $I_f=20\text{mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		565		nm	
FORWARD VOLTAGE		2.1	2.6	$V_f$	
REVERSE VOLTAGE	5.0			$V_r$	$I_f=100\mu\text{A}$
AXIAL INTENSITY		30		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		60		2x theta	
EMITTED COLOR:	GREEN				
EPOXY LENS FINISH:	GREEN DIFFUSED				

LIMITS OF SAFE OPERATION AT  $25^{\circ}\text{C}$

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	150	mA
STEADY CURRENT	25	mA
POWER DISSIPATION	105	mW
DERATE FROM $25^{\circ}\text{C}$	-1.2	mW/ $^{\circ}\text{C}$
OPERATING, STORAGE TEMP.	-40 TO +85	$^{\circ}\text{C}$
SOLDERING TEMP.	+260	$^{\circ}\text{C}$
2.0mm FROM BODY		3 SEC. MAX

\*  $t < 10\mu\text{s}$

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030), MIN= +DECIMAL PRECISION -0.00, MAX.= +0.00 -DECIMAL PRECISION

UNCONTROLLED DOCUMENT

REV.	PART NUMBER
D	SSI-LXH312GD-150
T-3mm LED BLACK PANEL INDICATOR WITH 6" WIRE LEADS, 565nm GREEN LED, GREEN DIFFUSED LENS.	

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**RELIABILITY NOTE**  
 OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.

