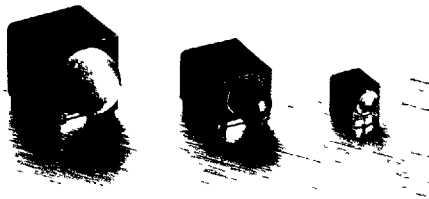
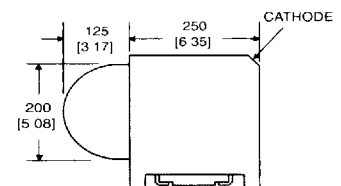
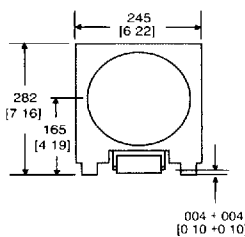


PRISM™ CBI™ SERIES - 5mm-590, 3mm-591, 2mm-595

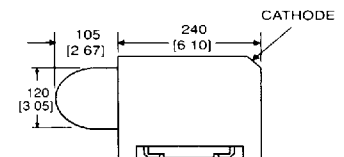
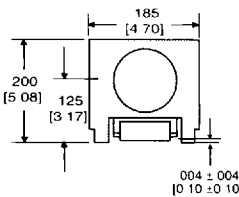
□ Dialight's PRISM CBI Series is the first true right angle surface-mountable LED indicator.



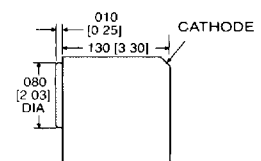
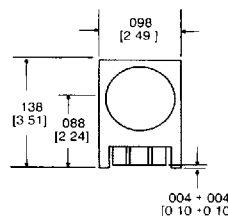
**5mm
590 Series**



**3mm
591 Series**



**2mm
595 Series**



	COLOR	V _F	mcd	mA
590	-2101	1.75	29	10
	-2001	2	8	10
	-2301	2	6.5	10
	-2401	Y	2	5

Available in 13" (33 cm) reels

	COLOR	V _F	mcd	mA
591	-2101	1.75	29	10
	-2001	2	8	10
	-2301	2	6.5	10
	-2401	Y	2	5

Available in 13" (33 cm) reels

	COLOR	V _F	mcd	mA
595	-2101	1.7	9.5	20
	-2301	2.1	5.6	20
	-2401	Y	2.2	5.7

Available in 7" (17.8 cm) and 13" (33 cm) reels

** AlGaAs

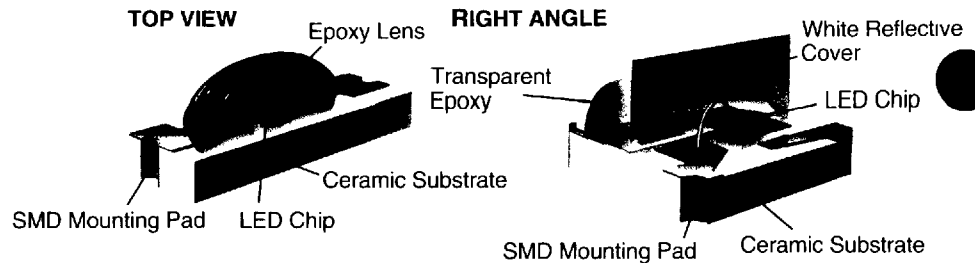
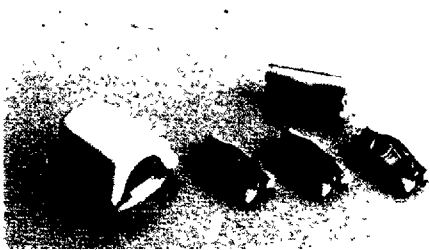
[] Metric dimensions in mm

U.S. Patent # 4,935,856. Foreign patents pending.

All electrical values and dimensions are typical

FOR MAXIMUM RATINGS AND ORDERING INFORMATION SEE PAGE 6.

VISIBLE 597 SERIES

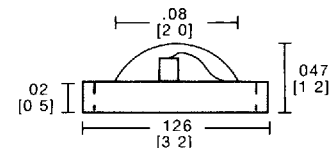


TOP VIEW

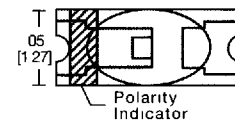
TYPE	EMISSION COLOR	ENCAPSULATION	WAVELENGTH IN NM	mcd @ 20 mA		V _F @ 20 mA IN V	I _F MAX. IN mA	POLARITY INDICATOR
				MIN.	TYP.			
-3001		Tinted	630	3.2	7.2	2.1	75	Cathode
-3012*		Tinted	700	2.1	4.8	2.2	60	Cathode
-3101		Clear	655	8.0	15.0	1.8	75	Anode
-3111		Tinted	655	4.0	8.0	1.8	75	Anode
-3301		Tinted	565	3.2	6.9	2.0	75	Cathode
-3401	Yellow	Tinted	585	1.5	7.0	2.3	75	Cathode
-3501		Clear	570	2.8	7.2	2.2	75	Cathode
-3601		Clear	470	0.6	1.5	3.0	50	Cathode

*Low current

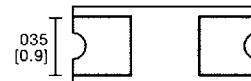
TOP VIEW PACKAGE



Side



Top

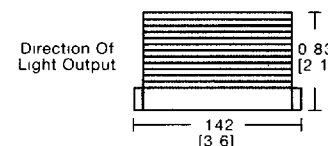


Bottom

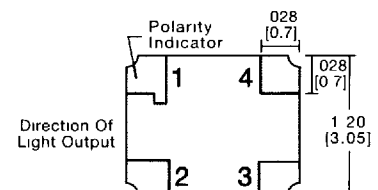
RIGHT ANGLE

TYPE	EMISSION COLOR	WAVELENGTH IN NM	mcd @ 20 mA		V _F @ 20 mA IN V	I _F MAX. IN mA
			MIN.	TYP.		
-2001		630	3.2	8.2	2.1	75
-2101		655	8.0	17.0	1.8	75
-2301		565	3.2	7.5	2.0	75
-2401	Yellow	585	1.5	7.4	2.3	75
-2501		570	2.8	7.8	2.2	75

RIGHT ANGLE PACKAGE



Side



Bottom

RIGHT ANGLE - DUAL COLOR

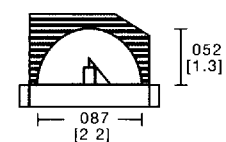
TYPE	EMISSION COLOR	WAVELENGTH IN NM	mcd @ 20 mA		V _F @ 20 mA IN V	I _F MAX. IN mA
			MIN.	TYP.		
597 -2701		630/570	4.0	7.0	1.8	75

RIGHT ANGLE - WHITE & MULTI-SPECTRAL

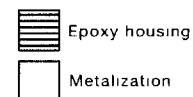
TYPE	EMISSION COLOR	WAVELENGTH IN NM	mcd @ 20 mA		V _F @ 20 mA IN V	I _F MAX. IN mA
			MIN. / MAX.	TYP.		
597 -2711		470/700	1.2	8.0	3.5	75

RIGHT ANGLE PACKAGE PIN OUT

DEVICE	PIN IDENTIFICATION			
	1	2	3	4
-2001, -2301, -2401, -2501	A	N/C	C	N/C
-2101	C	N/C	A	N/C
-2701	A(Green)	A(Red)	C	N/C
-2711	C(Blue)	A	C(Red)	C(Green)

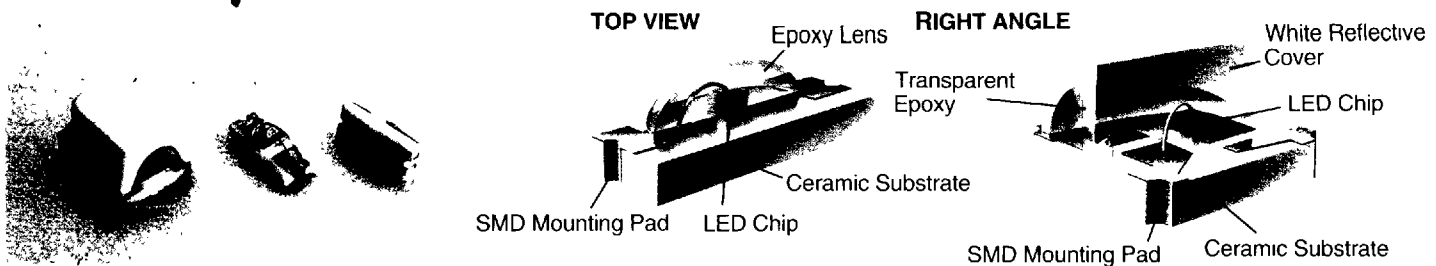


End



[] Metric dimensions in mm.
Manufactured utilizing CERLED technology
All electrical values and dimensions are typical.

INFRARED 597 SERIES



TOP VIEW – EMITTER

	TYPE	WAVELENGTH IN NM	POWER IN mW		RISE & FALL TIME		FORWARD VOLTAGE		I _F MAX. in mA	POLARITY INDICATOR
			100mA	20mA	in ns	in ns	100mA	20mA		
597	-3801	880**	9.2	2.0	1500	800	1.65	1.35	75	Anode
	-3811	940*	3.7	0.8	2000	1000	1.5	1.2	75	Cathode
	-3821	700	5.4	1.2	60	40	2.1	1.7	75	Anode
	-3831	880*	6.0	1.3	1500	800	1.5	1.3	75	Anode

* AlGaAs ** DH AlGaAs

TOP VIEW – DETECTORS, PIN DIODE

	TYPE	PHOTO- SENSITIVITY in nm	PEAK WAVELENGTH in nm	OPEN CIRCUIT VOLT V ₀ in mV	P. CURRENT I _{sc} in μ A	D. CURRENT I _R in nA	ACTIVE AREA A ₂ in mm ²	RISE/FALL TIME t _r /t _f in ns	POLARITY INDICATOR
597	-4412	530...1000	950	390	2	1	0.2	6/6	Cathode

TOP VIEW – PHOTOTRANSISTORS

	TYPE	PHOTO- SENSITIVITY in nm	PEAK WAVELENGTH in nm	V _{CE} in V	I _C in mA	P. CURRENT I _{pce} in mA	D. CURRENT I _{ceo} in nA	ACTIVE AREA A in mm ²	RISE/FALL TIME t _r /t _f in μ s
597	-4121	400...1070	850	75	100	3	100	0.19	3/3
	-4122	450...1000	850	30	70	3	100	0.19	3/3

NOTE: Polarity indicator is the collector

RIGHT ANGLE – EMITTER

	TYPE	WAVELENGTH in nm	POWER IN mW		RISE & FALL TIME		FORWARD VOLTAGE		I _F MAX. in mA
			100mA	20mA	in ns	in ns	100mA	20mA	
597	-2801	880**	9.2	2.0	1500	800	1.65	1.35	75
	-2811	940*	3.7	0.8	2000	1000	1.5	1.2	75
	-2821	700	5.4	1.2	60	40	2.1	1.7	75
	-2831	880*	6.0	1.3	1500	800	1.5	1.3	75
	-2841	880**	20.0	5.6	Dual 597 -2801 with common anodes				

* AlGaAs ** DH AlGaAs

RIGHT ANGLE – DETECTORS, PIN DIODE

	TYPE	PHOTO- SENSITIVITY in nm	PEAK WAVELENGTH in nm	OPEN CIRCUIT VOLT V ₀ in mV	P. CURRENT I _{sc} in μ A	D. CURRENT I _R in nA	ACTIVE AREA A ₂ in mm ²	RISE/FALL TIME t _r /t _f in ns
597	-1412	530...1000	950	390	2	1	0.2	6/6

RIGHT ANGLE – PHOTOTRANSISTORS

	TYPE	PHOTO- SENSITIVITY in nm	PEAK WAVELENGTH in nm	V _{CE} in V	I _C in mA	P-CURRENT I _{pce} in mA	D. CURRENT I _{ceo} in nA	ACTIVE AREA A in mm ²	RISE/FALL TIME t _r /t _f in μ s
597	-1121	400...1070	850	75	100	2.5	100	0.19	3/3

RIGHT ANGLE PACKAGE PIN OUT

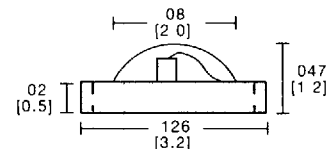
DEVICE	PIN IDENTIFICATION			
	1	2	3	4
-2801,-2821,-2831	C	N/C	A	N/C
-2811	A	N/C	C	N/C
-2841	C ₂	C ₁	A _{1,2}	N/C
-1121*	E	B	C	N/C
-1412**	A	N/C	C	N/C

* Phototransistor **Photo Pin

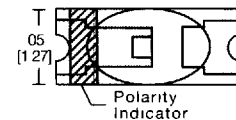
[] Metric dimensions in mm
 Manufactured utilizing CERLED technology.
 All electrical values and dimensions are typical

FOR MAXIMUM RATINGS AND ORDERING INFORMATION SEE PAGE 6.

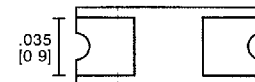
TOP VIEW PACKAGE



Side

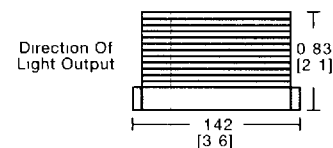


Top

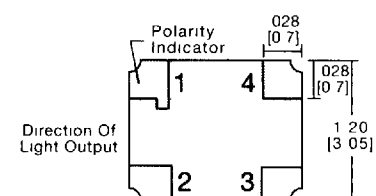


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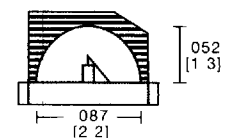
RIGHT ANGLE PACKAGE



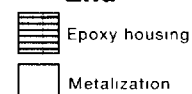
Side

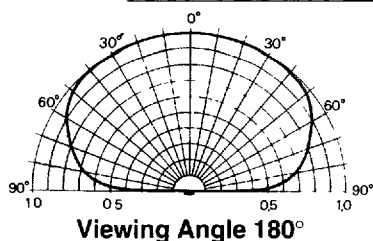


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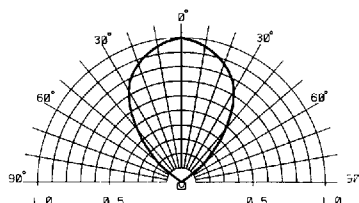


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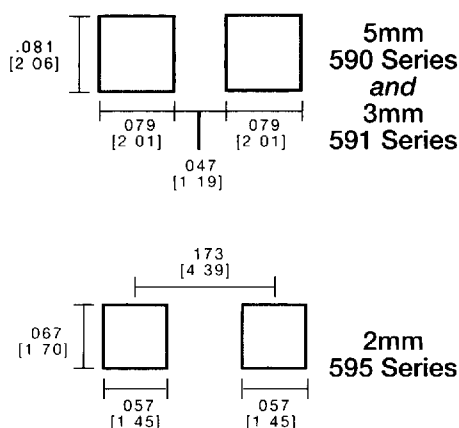
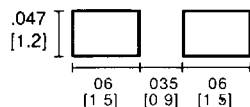
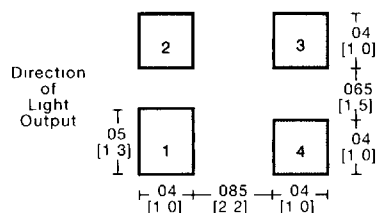


PRISM™ AND microLED™ SERIES**microLED VIEWING ANGLE****TOP VIEW PACKAGE****microLED MAXIMUM RATINGS****TOP VIEW PACKAGE**

	POWER DISSIPATION	LINEAR DERATING	REVERSE VOLTAGE	PEAK FORWARD CURRENT	LIGHT EMISSION ANGLE
597	130mW at 25 °C	2.7 mW/°C	5V min.	800mA 10μs	170° 50% rel.

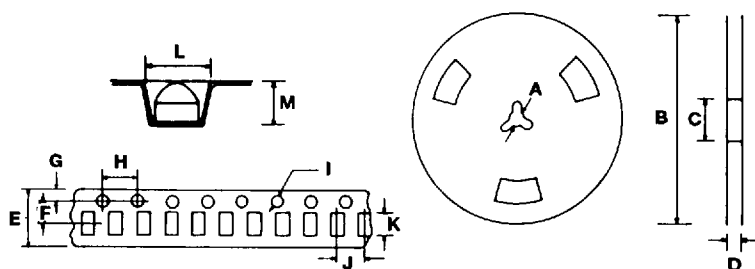
RIGHT ANGLE PACKAGE**Horizontal Viewing Angle****RIGHT ANGLE PACKAGE**

	POWER DISSIPATION	LINEAR DERATING	REVERSE VOLTAGE	PEAK FORWARD CURRENT	LIGHT EMISSION ANGLE
597	180mW at 25 °C	2.9 mW/°C	5V min	800mA 10μs	80° 50% rel

RECOMMENDED BOARD LAYOUTS**PRISM****microLED****TOP VIEW PACKAGE****RIGHT ANGLE PACKAGE****TAPE AND REEL SPECIFICATIONS**

	590-XXXX -013	591-XXXX -013	595-XXXX -007	595-XXXX -013	597-XXXX -007*	597-XXXX -013**
DIM.						
A	.512	.512	.512	.512	.512	.512
B	13.0	13.0	7.0	13.0	7.0	13.0
C	3.94	3.94	2.36	3.94	1.57	3.94
D	.764	.764	.606	.606	.472	.606
E	16mm	16mm	12mm	12mm	8mm	12mm
F	.295	.295	.217	.217	.138	.217
G	.069	.069	.069	.069	.069	.069
H	.157	.157	.157	.157	.157	.157
I	.059	.059	.059	.059	.059	.059
J	.472	.315	.315	.315	.157	.315
K	.381	.355	.155	.155	.138	.157
L	.258	.198	.104	.104	.075	.133
M	.293	.211	.148	.148	.051	.091
Qty/Reel	700	1600	600	2300	3000	3000

* Top View Only ** Right Angle Only

**HOW TO ORDER:**

Example: 597 - 3012 - X X X

PACKAGING OPTIONS

- 001 — Bulk at 100 pcs. per bag
- 002 — 20 pcs. on tape
- 007 — 7" reel
- 013 — 13" reel