

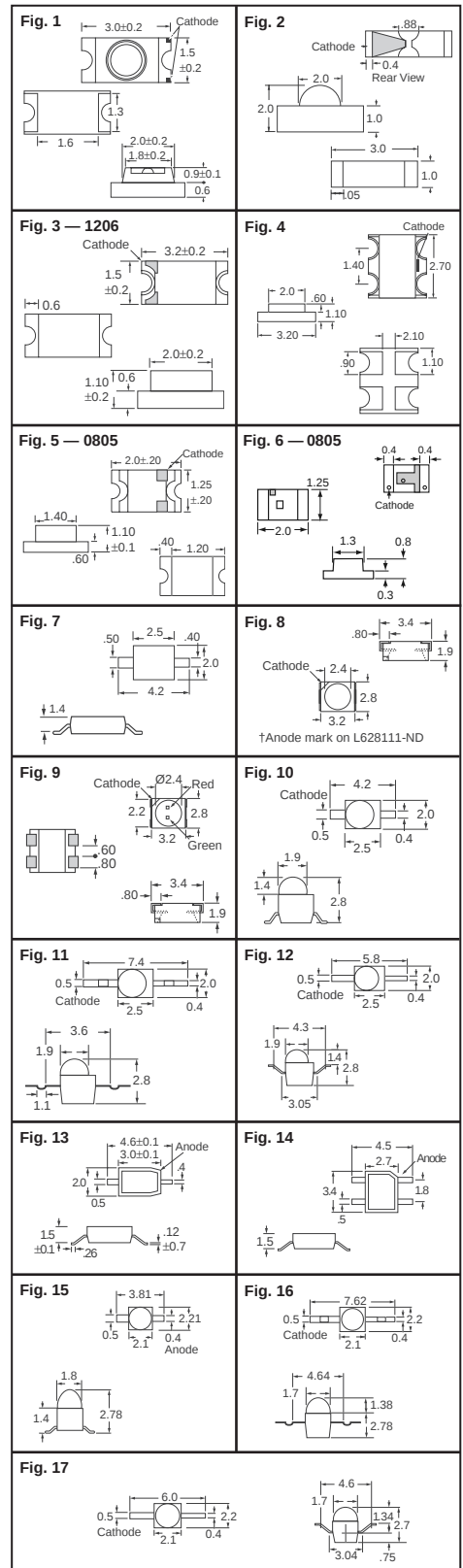


CHICAGO MINIATURE LAMP, INC.
WHERE INNOVATION COMES TO LIGHT

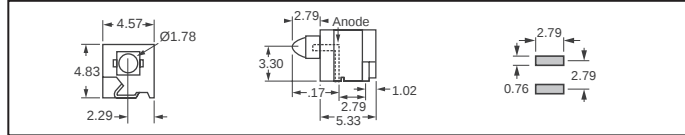
Surface Mount LEDs

Fig.	Wave-length	Color	Lens Color	TYP mcd	Forward Voltage V _F @ mA	Digi-Key Part No.	1	Cut Tape Price Each	10	100	Tape & Reel Pricing*	Chicago Miniature Part No.
CMD11-21 Series												
1	640	Red	Clear	6	2.0	20	L62001CT-ND	.39	.33	.28	330.00/2,000	CMD11-21VRC/TR8
	570	Green	Clear	7.5	2.1	20	L62005CT-ND	.39	.33	.28	330.00/2,000	CMD11-21VGC/TR8
	585	Yellow	Clear	6	2.0	20	L62007CT-ND	.39	.33	.28	330.00/2,000	CMD11-21VYC/TR8
	660	Super Red	Clear	17	1.7	20	L62011CT-ND	.39	.33	.28	330.00/2,000	CMD11-21SRC/TR8
CMDA1 Series												
1	660	Red	Clear	33.6	1.7	20	L71501CT-ND	.32	.27	.23	337.50/2,500	CMDA1DR7A1Z
	580	Yellow	Clear	6.0	2.2	20	L71502CT-ND	.32	.27	.23	337.50/2,500	CMDA1CY7A1Z
	570	Yellow	Clear	24.0	2.1	20	L71503CT-ND	.32	.27	.23	337.50/2,500	CMDA1AY7A1Z
	560	Green	Clear	12.0	2.1	20	L71504CT-ND	.32	.27	.23	337.50/2,500	CMDA1CG7A1Z
CMD12-21 Series												
2	640	Red	Clear	5	2.0	20	L62101CT-ND	.39	.33	.28	330.00/2,000	CMD12-21VRC/TR8
	570	Green	Clear	8.8	2.1	20	L62105CT-ND	.39	.33	.28	330.00/2,000	CMD12-21VGC/TR8
	585	Yellow	Clear	9	2.0	20	L62107CT-ND	.39	.33	.28	330.00/2,000	CMD12-21VYC/TR8
	660	Super Red	Clear	12.4	1.7	20	L62111CT-ND	.49	.42	.35	420.00/2,000	CMD12-21SRC/TR8
2	570	Ultra Green	Clear	14.9	2.1	20	L62115CT-ND	.49	.42	.35	420.00/2,000	CMD12-21UGC/TR8
CMDA7 Series												
2	660	Red	Clear	12.4	1.7	20	L71509CT-ND	.32	.27	.23	—	CMDA7DR7A1Z
	580	Yellow	Clear	3.0	2.1	20	L71510CT-ND	.32	.27	.23	—	CMDA7CY7A1Z
	570	Yellow	Clear	8.8	2.1	20	L71511CT-ND	.32	.27	.23	—	CMDA7AY7A1Z
CMD15-21 Series												
3	640	Red	Clear	6	2.0	20	L62201CT-ND	.35	.30	.25	300.00/2,000	CMD15-21VRC/TR8
	570	Green	Clear	10	2.1	20	L62205CT-ND	.32	.27	.23	270.00/2,000	CMD15-21VGC/TR8
	430	Ultra Blue	Clear	45	4.9	20	L62206CT-ND	3.43	2.94	2.45	2940.00/2,000	CMD15-21UBC/TR8
	581	Yellow	Clear	6	2.0	20	L62207CT-ND	.39	.33	.28	330.00/2,000	CMD15-21VYC/TR8
	660	Super Red	Clear	15	1.7	20	L62211CT-ND	.46	.39	.33	390.00/2,000	CMD15-21SRC/TR8
	565	Ultra Green	Clear	12	2.1	20	L62215CT-ND	.42	.36	.30	360.00/2,000	CMD15-21UGC/TR8
	640	Red	Diff	4	2.0	20	L62301CT-ND	.28	.24	.20	240.00/2,000	CMD15-21VRD/TR8
	570	Green	Diff	6.5	2.1	20	L62305CT-ND	.28	.24	.20	240.00/2,000	CMD15-21VGD/TR8
	585	Yellow	Diff	4	2.0	20	L62307CT-ND	.28	.24	.20	240.00/2,000	CMD15-21VYD/TR8
	640/570	Red/Gm.	Clear	6.0/10.0	2.0/2.1	20	L622015CT-ND	.67	.57	.48	570.00/2,000	CMD15-22VRGCG/TR8
4	660/565	Red/Gm.	Clear	15.0/12.0	1.7/2.1	20	L622115CT-ND	.81	.69	.58	690.00/2,000	CMD15-22RUGCG/TR8
CMD17-21 Series												
5	640	Red	Clear	13	2.0	20	L62401CT-ND	.28	.24	.20	360.00/3,000	CMD17-21VRC/TR8
	570	Green	Clear	35	2.1	20	L62405CT-ND	.28	.24	.20	360.00/3,000	CMD17-21VGC/TR8
	585	Yellow	Clear	12	2.0	20	L62407CT-ND	.28	.24	.20	360.00/3,000	CMD17-21VYC/TR8
	660	Super Red	Clear	45	1.7	20	L62411CT-ND	.49	.42	.35	630.00/3,000	CMD17-21SRC/TR8
	570	Ultra Green	Clear	15.0	2.1	20	L62415CT-ND	.32	.27	.23	405.00/3,000	CMD17-21UGC/TR8
	640	Red	Diff	6.0	2.0	20	L62501CT-ND	.32	.27	.23	405.00/3,000	CMD17-21VRD/TR8
	570	Green	Diff	7.0	2.1	20	L62505CT-ND	.32	.27	.23	405.00/3,000	CMD17-21VGD/TR8
	585	Yellow	Diff	4	2.0	20	L62507CT-ND	.39	.33	.28	495.00/3,000	CMD17-21VYD/TR8
CMDA5 Series												
6	660	Red	Clear	11.7	1.7	20	L71505CT-ND	.32	.27	.23	540.00/4,000	CMDA5DR7D1Z
	580	Yellow	Clear	3.7	2.2	20	L71506CT-ND	.32	.27	.23	540.00/4,000	CMDA5CY7D1Z
	570	Yellow	Clear	11.7	2.1	20	L71507CT-ND	.32	.27	.23	540.00/4,000	CMDA5AY7D1Z
	560	Green	Clear	6.4	2.1	20	L71508CT-ND	.32	.27	.23	540.00/4,000	CMDA5CG7D1Z
CMD28-21 Series												
7	640	Red	Clear	3	2.0	20	L62601CT-ND	.39	.33	.28	330.00/2,000	CMD28-21VRC/TR8
	570	Green	Clear	5.5	2.1	20	L62605CT-ND	.39	.33	.28	330.00/2,000	CMD28-21VGC/TR8
	660	Super Red	Clear	17	1.7	20	L62611CT-ND	.46	.39	.33	390.00/2,000	CMD28-21SRC/TR8
	640	Red	Clear	0.16	2.0	1	L62701CT-ND	.39	.33	.28	330.00/2,000	CMD28-21VRC/TR8/T1
	570	Green	Clear	0.16	2.1	1	L62705CT-ND	.39	.33	.28	330.00/2,000	CMD28-21VGC/TR8/T1
	660	Super Red	Clear	1.6	1.7	1	L62711CT-ND	.53	.45	.38	450.00/2,000	CMD28-21SRC/TR8/T1
CMD67-21 Series												
8	640	Red	Clear	10	2.0	20	L62801CT-ND	.56	.48	.40	480.00/2,000	CMD67-21VRC/TR8
	570	Green	Clear	25	2.1	20	L62805CT-ND	.42	.36	.30	360.00/2,000	CMD67-21VGC/TR8
	585	Yellow	Clear	10	2.0	20	L62807CT-ND	.49	.42	.35	420.00/2,000	CMD67-21VYC/TR8
	660	Super Red	Clear	40	1.7	20	L62811CT-ND	.63	.54	.45	540.00/2,000	CMD67-21SRC/TR8
	660	Ultra Red	Clear	62	1.7	20	L628111CT-ND†	.88	.75	.63	750.00/2,000	CMD67-21URC/TR8
9	640/570	Red/Gm.	Clear	10.0/25.0	2.0/2.1	20	L628015CT-ND	1.16	.99	.83	990.00/2,000	CMD67-22VRGCG/TR8
	660/565	Red/Gm.	Clear	40.0/25.0	1.7/2.1	20	L628115CT-ND	1.16	.99	.83	990.00/2,000	CMD67-22RUGCG/TR8
CMD91-21/TR7 Series												
10	640	Red	Clear	80	2.0	20	L62901CT-ND	.42	.36	.30	180.00/1,000	CMD91-21VRC/TR7
	565	Green	Clear	50	2.1	20	L62905CT-ND	.42	.36	.30	180.00/1,000	CMD91-21VGC/TR7
	585	Yellow	Clear	30	2.0	20	L62907CT-ND	.42	.36	.30	180.00/1,000	CMD91-21VYC/TR7
	660	Super Red	Clear	170	1.7	20	L62911CT-ND	.49	.42	.35	210.00/1,000	CMD91-21SRC/TR7
CMD91-21/TR9 Series												
11	640	Red	Clear	80	2.0	20	L63001CT-ND	.42	.36	.30	180.00/1,000	CMD91-21VRC/TR9
	565	Green	Clear	50	2.1	20	L63005CT-ND	.42	.36	.30	180.00/1,000	CMD91-21VGC/TR9
	585	Yellow	Clear	30	2.0	20	L63007CT-ND	.49	.42	.35	210.00/1,000	CMD91-21VYC/TR9
	660	Super Red	Clear	170	1.7	20	L63011CT-ND	.49	.42	.35	210.00/1,000	CMD91-21SRC/TR9
CMD91-21/TR10 Series												
12	640	Red	Clear	80	2.0	20	L63101CT-ND	.42	.36	.30	180.00/1,000	CMD91-21VRC/TR10
	565	Green	Clear	50	2.1	20	L63105CT-ND	.42	.36	.30	180.00/1,000	CMD91-21VGC/TR10
	585	Yellow	Clear	30	2.0	20	L63107CT-ND	.42	.36	.30	180.00/1,000	CMD91-21VYC/TR10
	660	Super Red	Clear	170	1.7	20	L63111CT-ND	.49	.42	.35	210.00/1,000	CMD91-21SRC/TR10
CMD93-21/F8 Series												
13	640	Red	Clear	12	2.0	20	L63201CT-ND	.56	.48	.40	480.00/2,000	CMD93-21VRC/TR8
	570	Green	Clear	25	2.1	20	L63205CT-ND	.49	.42	.35	420.00/2,000	CMD93-21VGC/TR8
CMD93-22/F8 Series												
14	660/570	Red/Gm.	Clear	40.0/20.0	1.7/2.1	20	L632115CT-ND	1.02	.87	.73	435.00/1,000	CMD93-22SRVGC/TR8
CMD95-21/TR7 Series												
15	640	Red	Clear	25	2.0	20	L63301CT-ND	.42	.36	.30	180.00/1,000	CMD95-21VRC/TR7
	570	Green	Clear	19.5	2.1	20	L63305CT-ND	.46	.39	.33	195.00/1,000	CMD95-21VGC/TR7
	585	Yellow	Clear	25	2.0	20	L63307CT-ND	.46	.39	.33	195.00/1,000	CMD95-21VYC/TR7
	660	Super Red	Clear	100	1.7	20	L63311CT-ND	.49	.42	.35	210.00/1,000	CMD95-21SRC/TR7
CMD95-21/TR9 Series												
16	640	Red	Clear	25	2.0	20	L63401CT-ND	.42	.36	.30	180.00/1,000	CMD95-21VRC/TR9
	570	Green	Clear	19.5	2.1	20	L63405CT-ND	.46	.39	.33	195.00/1,000	CMD95-21VGC/TR9
CMD95-21/TR10 Series												
17	640	Red	Clear	25	2.0	20	L63501CT-ND	.46	.39	.33	195.00/1,000	CMD95-21VRC/TR10
	570	Green	Clear	19.5	2.1	20	L63505CT-ND	.46	.39	.33	195.00/1,000	CMD95-21VGC/TR10
	585	Yellow	Clear	25	2.0	20	L63507CT-ND	.49	.42	.35	210.00/1,000	CMD95-21VYC/TR10
	660	Super Red	Clear	100	1.7	20	L63511CT-ND	.49	.42	.35	210.00/1,000	CMD95-21SRC/TR10

* For Tape & Reel Part No., change CT to TR.

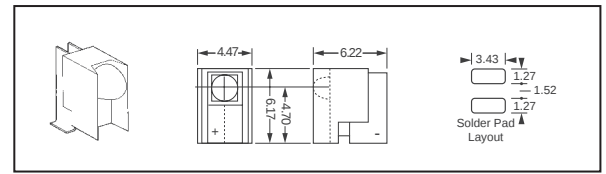


Sub-Miniature Surface Mount LED Assemblies



Color	Typ. mcd	Forward Voltage Typ. (V)	mA	Digi-Key Part No.	Cut Tape Price Each	1	100	Digi-Key Part No.	Tape & Reel 750	Chicago Miniature Part No.
Red	5.0	2.2	10	L60041CT-ND	1.37	1.17	.98	L60041TR-ND	438.75	6255T1
Green	4.0	2.3	10	L60045CT-ND	1.37	1.17	.98	L60045TR-ND	438.75	6255T5
Yellow	3.8	2.2	10	L60047CT-ND	1.37	1.17	.98	L60047TR-ND	438.75	6255T7
Red	5.0	5.0	9.6	L60061CT-ND	1.51	1.29	1.08	L60061TR-ND	483.75	6255T1-5V
Amber	5.0	5.0	10	L60063CT-ND	1.51	1.29	1.08	L60063TR-ND	483.75	6255T3-5V
Green	5.0	5.0	10	L60065CT-ND	1.51	1.29	1.08	L60065TR-ND	483.75	6255T5-5V
Red	0.5	1.8	2.0	L60051CT-ND	1.58	1.35	1.13	L60051TR-ND	506.25	6255T1LC
Green	1.2	1.8	2.0	L60055CT-ND	1.58	1.35	1.13	L60055TR-ND	506.25	6255T5LC
Yellow	0.5	1.9	2.0	L60057CT-ND	1.58	1.35	1.13	L60057TR-ND	506.25	6255T7LC
Red	2.0	5.0	3.5	L60071CT-ND	1.58	1.35	1.13	L60071TR-ND	506.25	6255T1-SVLC
Amber	4.0	5.0	3.5	L60073CT-ND	2.10	1.80	1.50	L60073TR-ND	675.00	6255T3-SVLC
Green	2.0	5.0	3.5	L60075CT-ND	1.58	1.35	1.13	L60075TR-ND	506.25	6255T5-SVLC

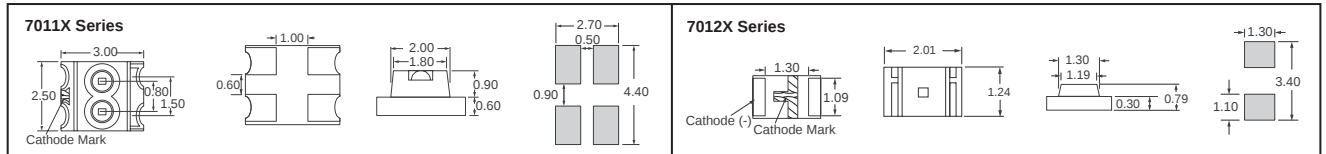
Right Angle Surface Mount LEDs



		Rated	Forward		Cut Tape			T & R	Chicago
	Wave-	Current	Voltage	Digi-Key	Price Each			Pricing*	Miniature
Color	length	(mA)	Typ. (V)	Part No.	1	10	100	1,000	Part No.
Red	—	10	2.2	L60001CT-ND	1.44	1.23	1.03	615.00	6200T1
Amber	—	10	2.0	L60003CT-ND	1.44	1.23	1.03	615.00	6200T3
Green	—	10	2.3	L60005CT-ND	1.44	1.23	1.03	615.00	6200T5
Yellow	—	10	2.2	L60007CT-ND	1.44	1.23	1.03	615.00	6200T7
Red	635	2	1.8	L60101CT-ND	1.65	1.41	1.18	705.00	6200T1LC
Green	565	2	1.8	L60105CT-ND	1.65	1.41	1.18	705.00	6200T5LC
Yellow	583	2	1.9	L60107CT-ND	1.65	1.41	1.18	705.00	6200T7LC
Red	635	9.6	5.0	L60201CT-ND	1.75	1.50	1.25	750.00	6202T1-5V
Amber	583	10	5.0	L60203CT-ND	1.75	1.50	1.25	750.00	6202T3-5V
Green	565	10	5.0	L60205CT-ND	1.75	1.50	1.25	750.00	6202T5-5V
Red	635	3.5	5.0	L60301CT-ND	1.75	1.50	1.25	750.00	6202T1-SVLC

* For Tape & Reel Part No., change CT to TR.

Surface Mount LEDs



Source (Dice)	Luminous Intensity Typ. (mcd)	Forward Voltage Typ. (V)	mA	Digi-Key Part No.	Cut Tape Price Each	1	10	100	Digi-Key Part No.	Tape & Reel Pricing	Chicago Miniature Part No.
Red/Green	17.0	1.7	20	L61015CT-ND	1.02	.87	.73	.73	L61015TR-ND	1087.50/2500	7011X1/5
Green/Yellow	7.5	2.1	20	L61057CT-ND	1.02	.87	.73	.73	L61057TR-ND	1087.50/2500	7011X5/7
Red	11.7	1.7	20	L61101CT-ND	.49	.42	.35	.35	L61101TR-ND	840.00/4000	7012X1
Green	6.4	2.1	20	L61105CT-ND	.49	.42	.35	.35	L61105TR-ND	840.00/4000	7012X5
Yellow/Green	11.7	2.1	20	L61107CT-ND	.49	.42	.35	.35	L61107TR-ND	840.00/4000	7012X7
Yellow	3.7	2.2	20	L61113CT-ND	.49	.42	.35	.35	L61113TR-ND	840.00/4000	7012X13

SHARP MICROELECTRONICS OF THE AMERICAS LEDs

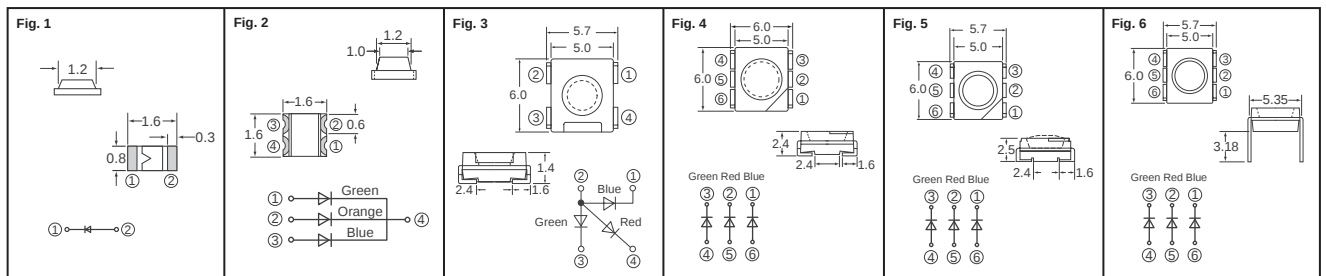


Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	VF Typ. (V)	If Max. (mA)	Luminous Intensity Iv (mcd) Typ.	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each			Tape & Reel*		Sharp Part No.
										1	10	100	Size	Pricing	
1	1608 Size	Amber	Clear	591	2.0	20	19	150°	425-1813-1-ND	.30	.17	.14	6,000	79.75/M	GM1JV35200AE
		Sunset-Orange	Clear	609	2.0	20	19	150°	425-1812-1-ND	.30	.17	.14	6,000	79.75/M	GM1JS35200AE
		Red	Clear	639	2.0	20	15	150°	425-1810-1-ND	.33	.18	.15	6,000	87.00/M	GM1JR35200AE
		Orange	Clear	627	2.0	20	19	150°	425-1811-1-ND	.30	.17	.14	6,000	79.75/M	GM1JJ35200AE
		Yellow-Green	Clear	575	2.0	20	13	150°	425-1814-1-ND	.33	.18	.15	6,000	87.00/M	GM1JE35200AE
2	1.6 x 1.6	Blue/Green/Orange	Clear	470/528/627	3.2/3.2/2.1	20	30/92/100	—	425-1815-1-ND	7.43	4.05	3.38	4,000	1957.50/M	GM1WA80350A
3	5.7 x 6	Red/Green/Blue	Clear	647/518/468	2.0/4.5/4.5	50	300/500/150	—	425-1816-1-ND	5.53	4.09	3.43	800	2386.80	GM5WA02200A
4	6 x 6	Blue/Green/Red	Clear	469/520/628	4.2/4.2/2.3	50	1450	120°	425-1817-1-ND	5.23	3.87	3.24	800	2257.20	GM5WA06250A
5	5.7 x 6	Red/Green/Blue	Clear	617/520/469	2.3/4.4/4.6	50	1725	—	425-1818-1-ND	5.53	4.09	3.43	800	2386.80	GM5WA06260A
6	6-Dip	Blue/Green/Red	Clear	466/519/639	4.5/4.5/2.0	50	150/500/300	120°	425-1819-5-ND	4.93	3.65	3.06	—	—	GM5WA06200Z

* For Tape & Reel Part No., change -1-ND to -2-ND.

More Product Available Online: www.digikey.com

1362 (T042)

Toll-Free: 1-800-344-4539 • Phone: 218-681-6674 • Fax: 218-681-3380