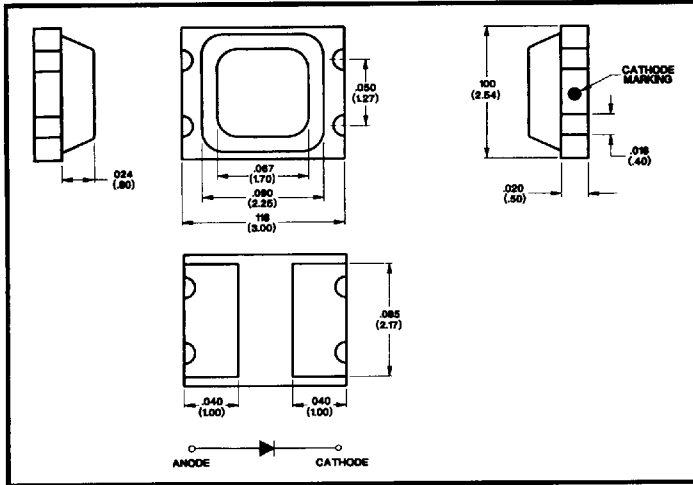




## Surface Mount LED Lamps — Single Chip (Size: 1210)

### DESCRIPTION AND FEATURES

4  
Solid State  
Products



Chicago Miniature Lamp's Surface Mount LED lamps are designed to be compatible with today's state of the art surface mount technology. These LED lamps are manufactured on a ceramic substrate making them significantly more resistant to processing temperatures. This design allows the user to process these units alongside other surface mount components through any of today's surface mount techniques. These LED lamps are packaged on 8mm tape, allowing for easy automated placement. LED lamps are available in Red, Green, Blue, Yellow, Amber and Ultra Red.

### ELECTRO-OPTICAL CHARACTERISTICS

Part Number	Emitted Color	Lens Color	Package Type	Luminous Intensity			Forward Voltage			Capacitance pF Vr=0, f=1MHz	Peak Wavelength (nm)	View Angle (Degrees)
				Min. mcd	Typ. mcd	mA	Typ.	Max.	mA			
CMD11204HR	H.E. Red	Clear	Single	1.6	4.0	20	2.0	2.6	20	—	630	100
CMD11204Y	Yellow	Clear	Single	3.0	8.0	20	2.1	2.8	20	—	585	100
CMD11204A	Amber	Clear	Single	3.0	8.0	20	2.1	2.8	20	—	610	100
CMD11204G	H.E. Green	Clear	Single	6.0	12.0	20	2.0	2.6	20	—	565	100
CMD11204UR	Ultra Red	Clear	Single	4.0	8.0	10	1.7	2.6	10	—	660	100
CMD11204B	Blue	Clear	Single	1.0	4.0	20	3.0	3.5	20	—	470	100

### ABSOLUTE MAXIMUM RATINGS

	Yellow	Amber	H.E. Red & H.E. Green	Ultra Red	Blue	Units
Power Dissipation .....	70	80	65	45	105	mW
Storage/Operating Temperature .....	-25 to +75	-25 to +75	-25 to +75	-25 to +75	-20 to +75	°C
Lead Solder Time at 260°C .....	10	10	10	10	10	Seconds
Peak Forward Current (1 micro second @ 10% duty cycle) .....	100	100	100	60	100	mA
Reverse Voltage (IR = 100µA) .....	4.0	4.0	4.0	3.0	5.0	V
Average Forward Current .....	25	25	25	15	50	mA

### TYPICAL CHARACTERISTIC CURVES

