CHICAGO MINIATURE
WHERE INNOVATION COMES TO LIGHT

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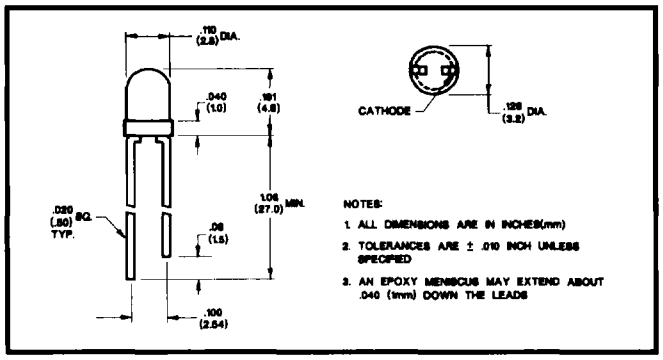
T-1 Resistored LED Lamps

DESCRIPTION AND FEATURES

4
Solid State Products



These T-1 LED lamps contain an integral resistor in series with the emitter chip to allow their direct application into 5 and 12 volt circuits. No external current limiting resistor is required. These lamps allow for savings in both component and assembly cost. These LEDs are compatible with all conventional soldering techniques.

ELECTRO-OPTICAL CHARACTERISTICS

Part Number	Emitted Color	Lens Color	Package Type	Luminous Intensity Min. mcd	Luminous Intensity Typ. mcd	Luminous Intensity V_f	Forward Current Typ.	Forward Current Max.	Forward Current V_f	Capacitance pF Vr=0, f=1MHz	Peak Wavelength (nm)	View Angle (Degrees)
CMD31121HR	H.E. Red	Red	Diffused	12.5	25.0	5.0	10.0	15.0	5.0	—	625	60
CMD31121G	H.E. Green	Green	Diffused	8.0	16.0	5.0	10.0	15.0	5.0	—	565	60
CMD31121Y	Yellow	Yellow	Diffused	8.0	16.0	5.0	10.0	15.0	5.0	—	590	60
CMD31131HR	H.E. Red	Red	Diffused	12.5	25.0	12.0	13.0	20.0	12.0	—	625	60
CMD31131G	H.E. Green	Green	Diffused	8.0	16.0	12.0	13.0	20.0	12.0	—	565	60
CMD31131Y	Yellow	Yellow	Diffused	8.0	16.0	12.0	13.0	20.0	12.0	—	590	60

ABSOLUTE MAXIMUM RATINGS

	5.0V	12.0V	Units
D.C. Forward Voltage	7.5	15.0	Volts
Storage/Operating Temperature	–40 to +85	–40 to +85	°C
Lead Solder Time at 260°C	5	5	Seconds
Reverse Voltage (IR = 100μA)	5.0	5.0	V

Chicago Miniature Lamp reserves the right to make specification revisions that enhance the design and/or performance of the product.