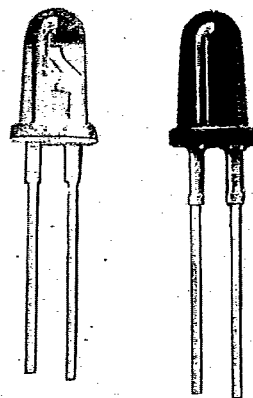


Light Emitting Diodes

3368291 ERCONA CORP

09C 00020 D T-41-21



CM4-X44B SERIES. SOLID STATE LAMP. RED, GREEN, ORANGE AND YELLOW

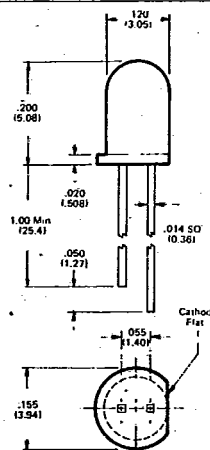
Optical Characteristics (@ 25°C)

Device Number	Lens Tint	Diffusion	Light Colour	Material	Peak Wavelength Typical	Luminous Intensity @ 1f = 20mA Gtd. Min.	Luminous Intensity Typical	Viewing Angle Typical
CM4-244B	Red	Diffused	Red	GaAsP	635 nm	1.0 mcd	5.0 mcd	90°
CM4-344B	Green	Diffused	Green	GaP	565 nm	0.3 mcd	1.0 mcd	90°
CM4-444B	Orange	Diffused	Orange	GaAsP	635 nm	1.0 mcd	5.0 mcd	90°
CM4-544B	Yellow	Diffused	Yellow	GaAsP	585 nm	0.8 mcd	4.0 mcd	90°

Light Source: Up to 5.0 mcd luminous intensity. Size: Cylindrical lens is T-1 size. One inch leads: Tin-plated. Mounting Clip: CM4-7.

Electrical Characteristics (@ 25°C)

Parameter	Forward Voltage @ If = 20mA	Reverse Voltage @ Ir = 100µA	Response Time	Capacitance @ 1 MHz, 0V DC
Minimum		5 Volts		
Typical	2.0 Volts, OR. & RED 2.1 Volts, YEL. 2.2 Volts, GR.	25 Volts	50nS	45 pF
Maximum	3.0 Volts			

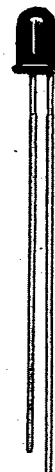
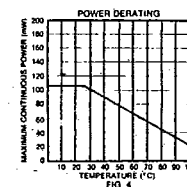
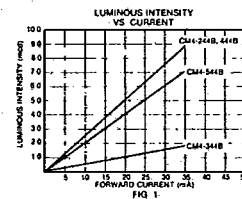
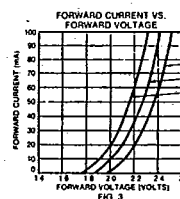
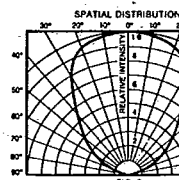


MAXIMUM RATINGS (@ 25°C)

Continuous Forward Current 35mA
Peak Forward Current (1µs pulse, .1% duty cycle) . 5.0A
Storage and Operating Temperature -55°C to 100°C
Solder Time @ 230°C (MIL. S-750) 5 seconds

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS

(25°C Free Air Temperature Unless Otherwise Specified)



CM4-20 SERIES. SOLID STATE LAMP. RED GALLIUM ARSENIDE PHOSPHIDE

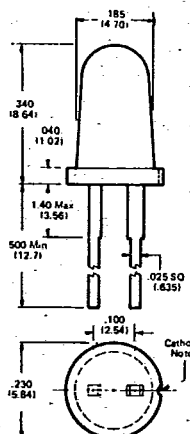
Optical Characteristics (@ 25°C)

Device Number	Lens Tint	Diffusion	Light Colour	Peak Wavelength	Luminous Intensity @ 1f = 20mA Gtd. Min.	Luminous Intensity Typical	Viewing Angle Typical
CM4-20	Clear	Transparent	Red	660 nm	0.6 mcd	2.0 mcd	90°
CM4-21	Clear	Diffused	Red	660 nm	0.4 mcd	1.6 mcd	90°
CM4-22	Red	Transparent	Red	660 nm	0.6 mcd	2.0 mcd	90°
CM4-23	Red	Diffused	Red	660 nm	0.1 mcd	0.4 mcd	180°
CM4-24	Red	Diffused	Red	660 nm	0.9 mcd	3.0 mcd	60°
CM4-25	Red	Diffused	Red	660 nm	0.4 mcd	1.6 mcd	90°

Size: Tapered lens is T-1½ size. Wire Wrappable Leads: .025 inches, square shaped. Leads: Tin-plated. Light Source: From .4 up to 3.0 mcd luminous intensity, depending upon model. Angle Viewing: Either 60°, 90° or 180°. Mounting Clip: CM4-5.

Electrical Characteristics (@ 25°C)

Parameter	Forward Voltage @ If = 20mA	Reverse Voltage @ Ir = 100µA	Response Time	Capacitance @ 1 MHz, 0V DC
Minimum		5.0 Volts		
Typical	1.65 Volts	10.0 Volts	50nS	35 pF
Maximum	2.00 Volts			

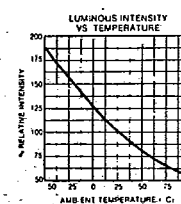
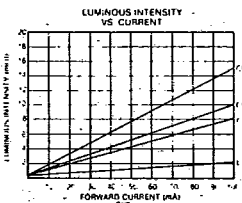
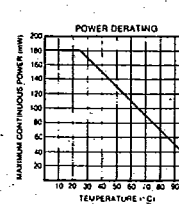
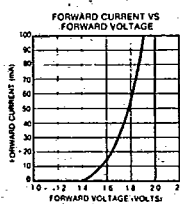
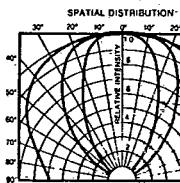


MAXIMUM RATINGS (@ 25°C)

Continuous Forward Current 100mA
Peak Forward Current (1µs pulse, .1% duty cycle) . 6.0A
Storage and Operating Temperature -55°C to 100°C
Solder Time @ 260°C 5 seconds

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS

(25°C Free Air Temperature Unless Otherwise Specified)



Light Emitting Diodes ready for panel mounting are also available. See Signal Lamp catalogue.

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