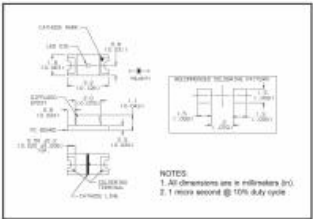


Products

LEDs

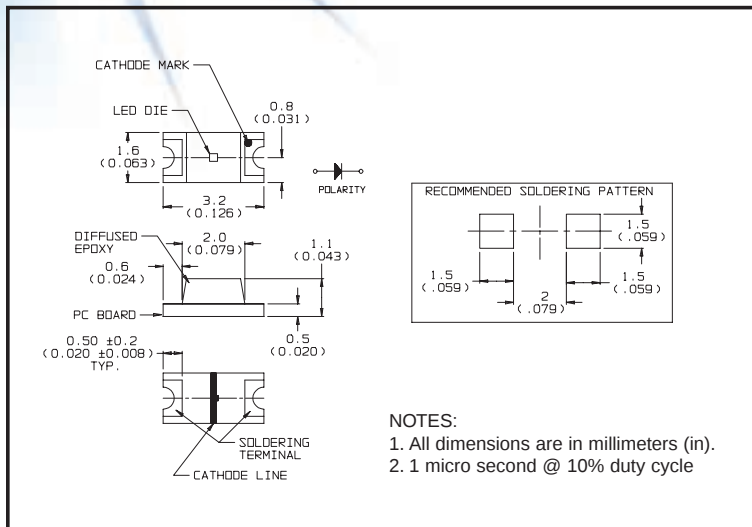
CML IT is a world leader in the manufacturing of LEDs and LED assemblies. CML offers a wide variety of products utilizing LEDs as a light source. Our line of discrete LEDs consists of both through hole and SMT products in all of the standard industry sizes including 3mm, 5mm, 0603, 0805, 1206, PLCC and any others. All CML-IT LEDs are available off-the-shelf in a wide variety of colors and intensities. Binning for through LEDs is one competitive service of CML Innovative Technologies, please contact us.



Part Number: CMDA2AR7D1S
Serial Number: CMDA2
LED Type: SMT
Industry Size: 1206
Metric Size: 3.2 x 1.6 x 1.1 mm
Output Color: RED
Epoxy: WHITE DIFFUSED
Peak Wave length (nm): 637
Minimum MCD: 25
Typical MCD: 90
Forward Volt (Typical): 1.9
Forward Volt (Max): 2.4
Rate Current (mA): 20
Viewing Angle (°): 170
Operating Temperature: -0.352941176
Storage Temperature:
Power Dissipation: 75
Cont Forward Current Max:
RoHS Status: Yes

CMDA2 Series HIGH BRIGHTNESS 1206 Package Size Surface Mount LED

DESCRIPTION AND FEATURES



Features

- High brightness
- Small size
- Industry standard 1206 Footprint
- Diffused optics
- Top emitting
- Compatible with IR solder profiles
- Ideal for use with Light Pipes
- Available in 8 mm tape on 7" diameter reel
- Packaged 3,000 pieces per reel

Applications

- LCD backlighting
- Push button backlighting
- Front panel indicator
- Symbol indicator
- Microdisplays
- Small message panel signage

CAUTION: CMDA2CB and CMDA2AG are Class 1 ESD sensitive per MIL-STD-1686. Please observe appropriate precautions during handling and processing.

ELECTRO-OPTICAL CHARACTERISTICS AND RATINGS

Part Number	Output Color	Diffusion	Package Color	Test Current (mA)	Forward Voltage Typ. (V)	Forward Voltage Max. Typ. (V)	Luminous Intensity Min. (mcd)	Luminous Intensity Typ. (mcd)	Peak Wavelength (nm)	Viewing Angle (Degrees)
CMDA2BY7D1S	Green	Diffused	White	20	2.1	2.6	16	50	570	170
CMDA2DY7D1S	Amber	Diffused	White	20	1.9	2.4	25	90	595	170
CMDA2AR7D1S	Red	Diffused	White	20	1.9	2.4	25	90	637	170
CMDA2BA7D1S	Orange	Diffused	White	20	1.9	2.4	25	90	609	170
CMDA2CB7D1S	Blue	Diffused	White	20	3.4	3.9	16	55	469	140
CMDA2AG7D1S	Green	Diffused	White	20	3.4	3.9	40	145	520	140

ABSOLUTE MAXIMUM RATINGS TO = 25 ° C

Part Number	Power Dissipation (mW)	Operating Temperature (°C)	Storage Temperature (°C)	Peak Forward Current Max. (See note 2) (mA)	Reverse Voltage (IR = 100 mA) (V)	Lead Solder Time at 230°C (Seconds)
BY	52	-30 to +85	-40 to +85	-	5	10
DY	75	-30 to +85	-40 to +85	100	5	10
AR	75	-30 to +85	-40 to +85	100	5	10
BA	75	-30 to +85	-40 to +85	100	5	10
CB	98	-30 to +85	-40 to +85	50	5	10
AG	98	-30 to +85	-40 to +85	50	5	10

The model numbers listed above are standard off the shelf parts. For the user who may have a requirement calling for various color/electrical specifications, a part number can be determined by calling the factory.