



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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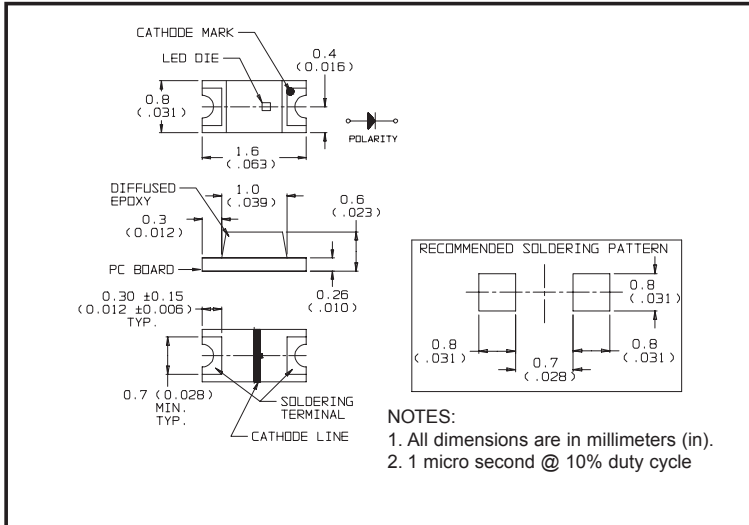
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## CMDA19 Series HIGH BRIGHTNESS 0603 Package Size Low Profile Surface Mount LED

### DESCRIPTION AND FEATURES



#### Features

- High brightness
- Small size
- Industrial standard 0603 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 4,000 pieces per reel

#### Applications

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

**CAUTION:**  
 CMDA19AG and CMDA19CB 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)
CMDA19CB7D1S	Blue	Diffused	Clear	20	3.4	3.9	16	55	469	140
CMDA19AG7D1S	Green	Diffused	Clear	20	3.4	3.9	40	145	520	140
CMDA19DY7D1S	Amber	Diffused	Clear	20	1.9	2.4	25	90	595	170
CMDA19BA7D1S	Orange	Diffused	Clear	20	1.9	2.4	25	90	609	170
CMDA19AR7D1S	Red	Diffused	Clear	20	1.9	2.4	25	90	637	170

### 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)
CB	98	-30 to +85	-40 to +85	50	5	10
AG	98	-30 to +85	-40 to +85	50	5	10
DY	75	-30 to +85	-40 to +85	100	5	10
BA	75	-30 to +85	-40 to +85	100	5	10
AR	75	-30 to +85	-40 to +85	100	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.

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