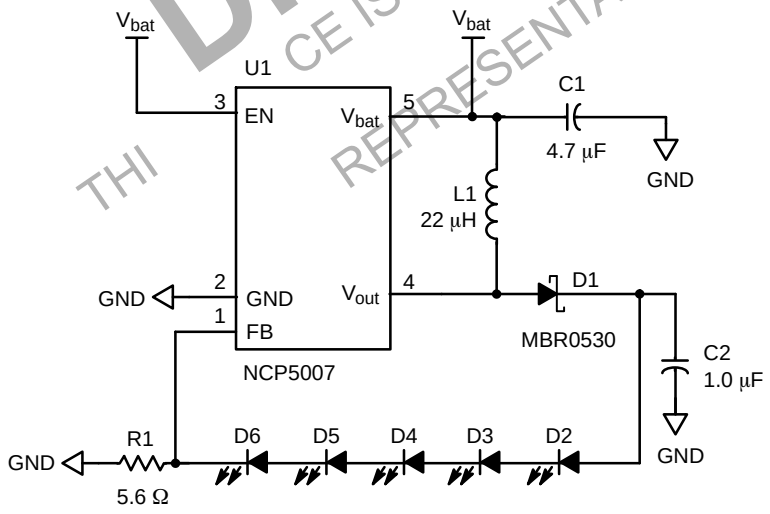
C 5007

C m B i LED B D.

The NCP5007 is a high efficiency boost converter operating in a current control loop, based on a PFM mode, to drive White LEDs. The current mode regulation allows a uniform brightness of the LEDs. The chip has been optimized for small ceramic capacitors and is capable of supplying up to 1.0 W output power.

- Inductor Based Converter brings High Efficiency
- Constant Output Current Regulation
- 2.7 to 5.5 V Input Voltage Range
- V_{out} to 22 V Output Compliance Allows up to 5 LEDs to be Driven in Series which Provides Automatic LED Current Matching
- Built−in Output Overvoltage Protection
- 0.3 μA Standby Quiescent Current
- Includes Dimming Function (PWM)
- Enable Function Driven Directly from Low Battery Voltage Source
- Thermal Shutdown Protection
- All Pins are Fully ESD Protected
- Low EMI Radiation
- These Devices are Pb−Free, Halogen Free/BFR Free and are RoHS Compliant

- LED Display Back Light Control
- High Efficiency Step Up Converter



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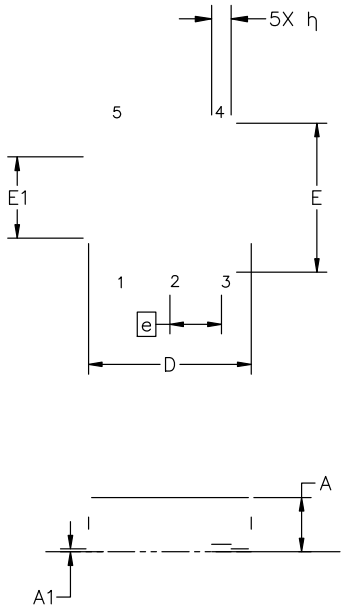
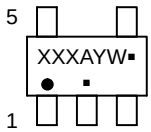
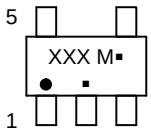


GENERIC
MARKING DIAGRAM*



Analog

XXX = Specific Device Code
A = Assembly Location
Y = Year
W = Work Week
▪ = Pb−Free Package



Discrete/Logic

XXX = Specific Device Code
M = Date Code
▪ = Pb−Free Package

(Note: Microdot may be in either location)

*This information is generic. Please refer to device data sheet for actual part marking. Pb−Free indicator, “G” or microdot “▪”, may or may not be present. Some products may not follow the Generic Marking.

OUR Pb−FREE
STRATEGY AND SOLDERING DETAILS, PLAN

FORMATION ON