

AMC Doc. #: AMC7110\_B  
JUNE 2005 V2.0



## AMC7110/1/3/4

### White/Blue LED Driver for Li-Ion Battery Application

#### DESCRIPTION

The AMC7110 series is member of ADDM North Star White/Blue LED driver family. No external component is required. Especially good for use Li-ion battery powered LCD display's backlight white LEDs. The special circuit design provides over 90% efficiency in low noise.

Target end applications are color LCD display, such as mobile phone with color display, smart phone, PDA, etc.

Device Name	LED Sink Current	LED Number
AMC7110	20mA	3
AMC7111	20mA	4
AMC7113	15mA	3
AMC7114	15mA	4

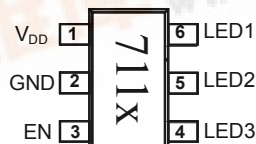
#### FEATURES

- No external component required.
- LED sink current 20 mA and 15mA
- Individual current sink circuit for all LEDs outputs to prevent short / open circuit on LEDs.
- PTC LED current for luminosity compensation.
- 3 channels (SOT-26), 4 channels (MSOP-8) available.
- 90% efficiency
- Supply voltage range 2.7V ~ 6V
- 0.1uA standby current
- 2KV HBM ESD protection
- Advanced Bi-CMOS process

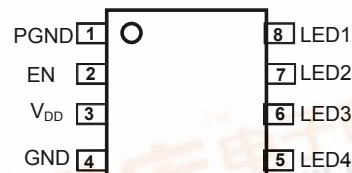
#### APPLICATIONS

- Small Size Color LCD Backlights
- Mobile Phone, Smart Phone Keypad Backlights.

#### PACKAGE PIN OUT



AMC7110, AMC7113  
SOT-26



AMC7111, AMC7114  
MSOP-8

#### ORDER INFORMATION

T <sub>A</sub> (°C)	DB	Plastic SOT-26	DN	Plastic MSOP-8
		6-pin		8-pin
0 to 70		AMC7110DB		AMC7111DN
0 to 70		AMC7113DB		AMC7114DN

Note: Surface-mount packages is available in Tape & Reel. Append "T" to part number (i.e., AMC7111DNT). DB is only available in Tape & Reel. Append "T" to part number (i.e., AMC7110DBT).