DN65
ZXSC310 Solution for emergency light

Description
This solution is provided for an emergency light driving 8 white LEDs connected in series from a 4 cell input.

![Schematic diagram](image)

**Figure 1** Schematic diagram

![Performance graphs](image)

**Figure 2** Performance graphs
Reference | Part no. | Value | Manufacturer | Contact details
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U1 | ZXSC310E5 | LED driver | Zetex | www.zetex.com
Q1 | FMMT619 | 2A, low V\text{CE(sat)} | Zetex | www.zetex.com
D1 | ZHCS1000 | 1A, low V\text{F} | Zetex | www.zetex.com
L1 | LPO2506OB-683 | 68\mu\text{H}, 0.4A | Coilcraft | www.coilcraft.com
R1 | Generic | 82m\Omega | Generic | NA
C1 | Generic | 2.2\mu\text{F} | Generic | NA
LED1 | NSPW500BS | White LED | Nichia | www.nichia.com

**Table 1  Bill of materials**