DN64
ZXSC310 Solution flashlight

Description

A solution is provided for flashlight driving 4 white LEDs connected in series from a 2 alkaline cell input.

![Schematic diagram]

**Figure 1** Schematic diagram

![Performance graphs]

**Figure 2** Performance graphs
Reference | Part no. | Value | Manufacturer | Contact details
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U1 | ZXSC310E5 | LED driver | Zetex | www.zetex.com
Q1 | FMMT618 | 2.5A, low V\(_{CE(sat)}\) | Zetex | www.zetex.com
D1 | ZHCS1000 | 1A, low V\(_F\) | Zetex | www.zetex.com
L1 | LPO2506OB-683 | 68µH, 0.4A | Coilcraft | www.coilcraft.com
R1 | Generic | 130mΩ | Generic | NA
C1 | Generic | 2.2µF | Generic | NA
LED1 | Learn-4753A | White LED | LG Innotek | www.iginnotek.com

Table 1  Bill of materials