

# DN64 ZXSC310 Solution flashlight

## Description

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

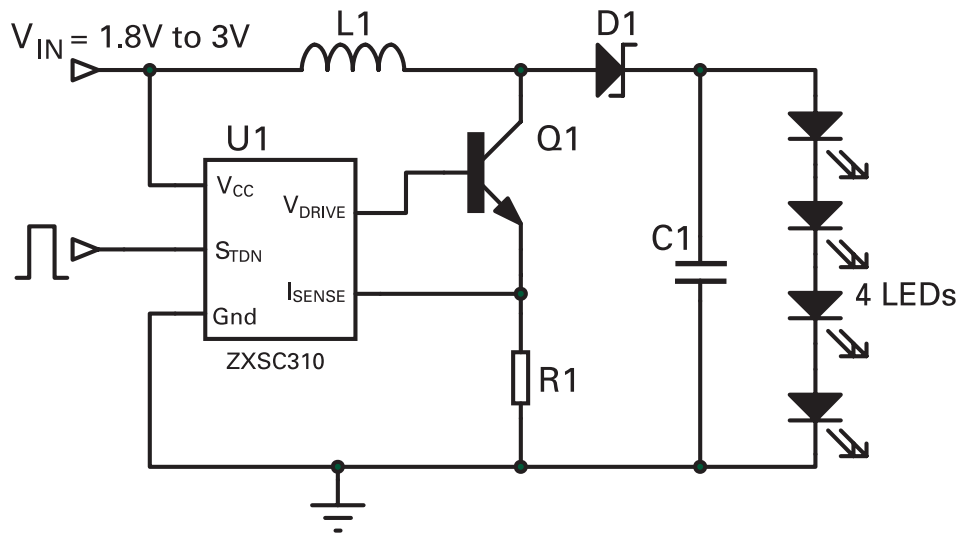


Figure 1 Schematic diagram

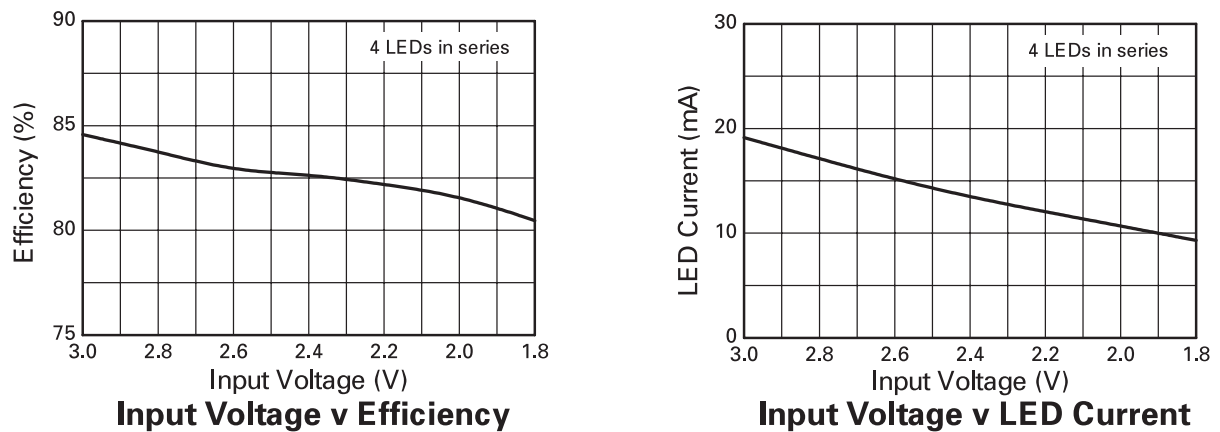


Figure 2 Performance graphs

# DN64

Reference	Part no.	Value	Manufacturer	Contact details
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	68 $\mu$ H, 0.4A	Coilcraft	www.coilcraft.com
R1	Generic	130m $\Omega$	Generic	NA
C1	Generic	2.2 $\mu$ F	Generic	NA
LED1	Learn-4753A	White LED	LG Innotek	www.iginnotek.com

**Table 1 Bill of materials**

Europe	Americas	Asia Pacific	Corporate Headquarters
Zetex GmbH Streitfeldstraße 19 D-81673 München Germany	Zetex Inc 700 Veterans Memorial Highway Hauppauge, NY 11788 USA	Zetex (Asia Ltd) 3701-04 Metroplaza Tower 1 Hing Fong Road, Kwai Fong Hong Kong	Zetex Semiconductors plc Zetex Technology Park, Chadderton Oldham, OL9 9LL United Kingdom
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