DN62
ZXSC310 Solution to drive 3 LEDs connected in series

Description

This solution is optimized for an input voltage range of 4.3V to 3V. The LED current is set to 15mA V_{IN} = 4.3V and 8mA at V_{IN} = 3V.

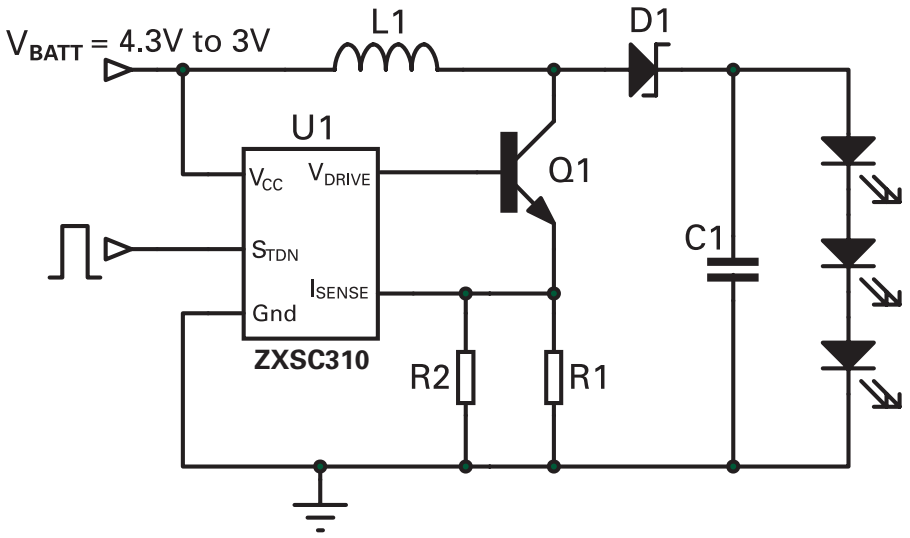


Figure 1 Schematic diagram

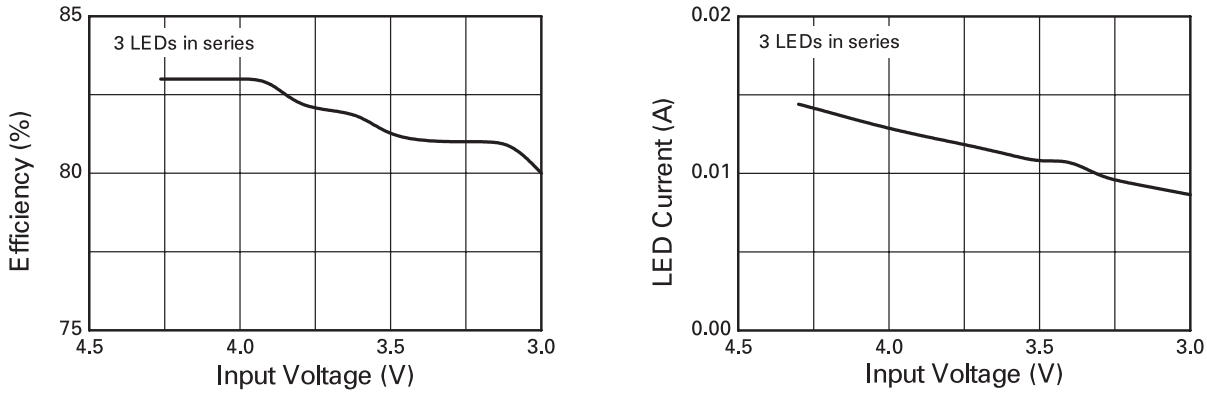


Figure 2 Performance graphs

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Reference	Part no.	Value	Manufacturer	Contact details
U1	ZXSC310E5	NA	Zetex	www.zetex.com
Q1	FMMT618	NA	Zetex	www.zetex.com
D1	ZHCS1000	1A	Zetex	www.zetex.com
R1	Generic	510mΩ	Generic	NA
R2	Generic	510μF	Generic	NA
C1	Generic	2.2μF	Generic	NA
L1	DO1608P-103	10μH	Coilcraft	www.coilcraft.com
LED1-3	NSPMW500BS	White LED	Nichia	www.nichia.com

Table 1 Bill of materials

Europe
Zetex GmbH
Streitfeldstraße 19
D-81673 München
Germany

Telefon: (49) 89 45 49 49 0
Fax: (49) 89 45 49 49 49
europe.sales@zetex.com

Americas
Zetex Inc
700 Veterans Memorial Highway
Hauppauge, NY 11788
USA

Telephone: (1) 631 360 2222
Fax: (1) 631 360 8222
usa.sales@zetex.com

Asia Pacific
Zetex (Asia Ltd)
3701-04 Metroplaza Tower 1
Hing Fong Road, Kwai Fong
Hong Kong

Telephone: (852) 26100 611
Fax: (852) 24250 494
asia.sales@zetex.com

Corporate Headquarters
Zetex Semiconductors plc
Zetex Technology Park, Chadderton
Oldham, OL9 9LL
United Kingdom

Telephone: (44) 161 622 4444
Fax: (44) 161 622 4446
hq@zetex.com

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