

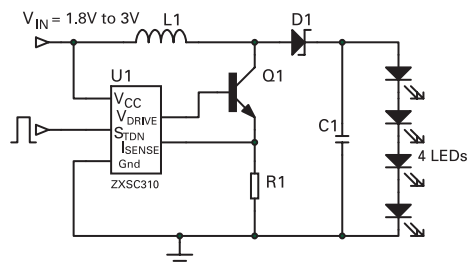
Design Note 64

ZXSC310 Solution Flashlight

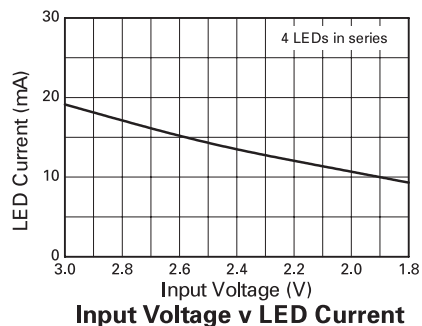
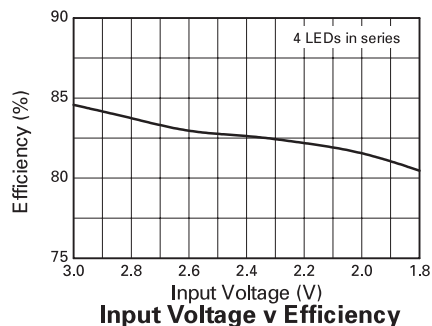
Aim

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

Circuit diagram



Performance graphs



Bill of Materials

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	68μH, 0.4A	Coilcraft	www.coilcraft.com
R1	Generic	130mΩ	Generic	
C1	Generic	2.2μF	Generic	
LED1-4	Learn-4753A	White LED	LG Innotek	www.lginnotek.com

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