



Zenitron Diodes Type-C AC Adapter 45W (All Diodes Solution)

100V-240Vac
50/60Hz



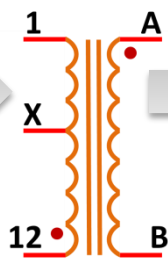
Rectifier
&
EMI Filter



Flyback



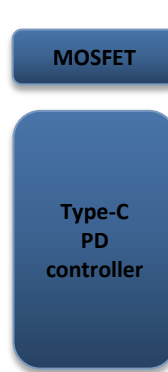
Transformer
Isolation



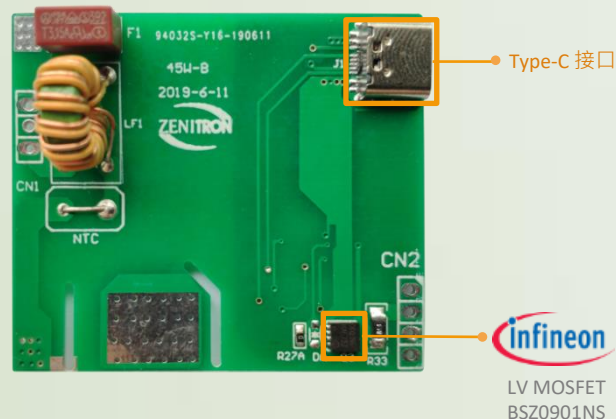
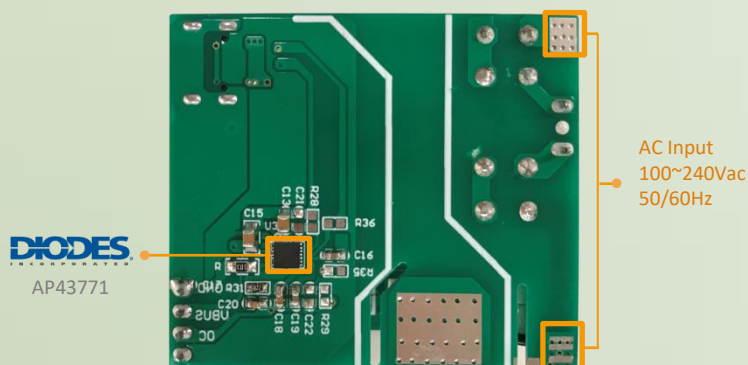
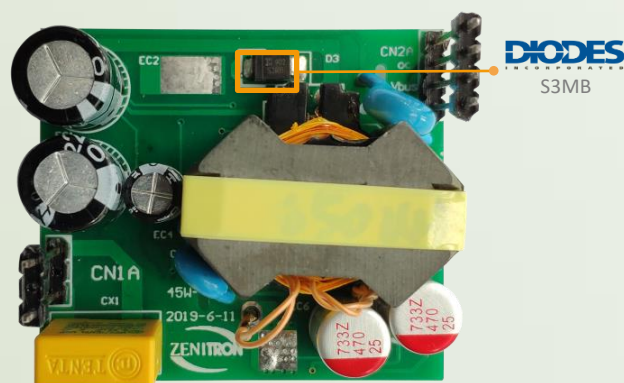
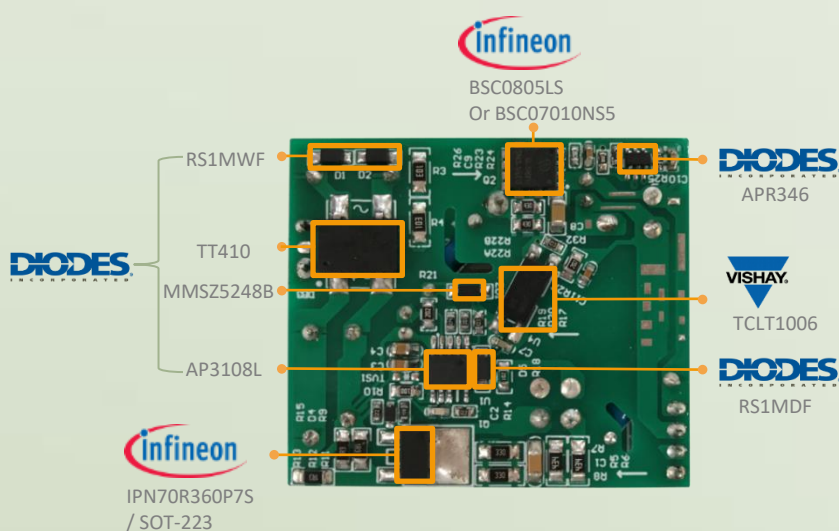
Synchronous
rectification



PD
Controller



Type-C
Output



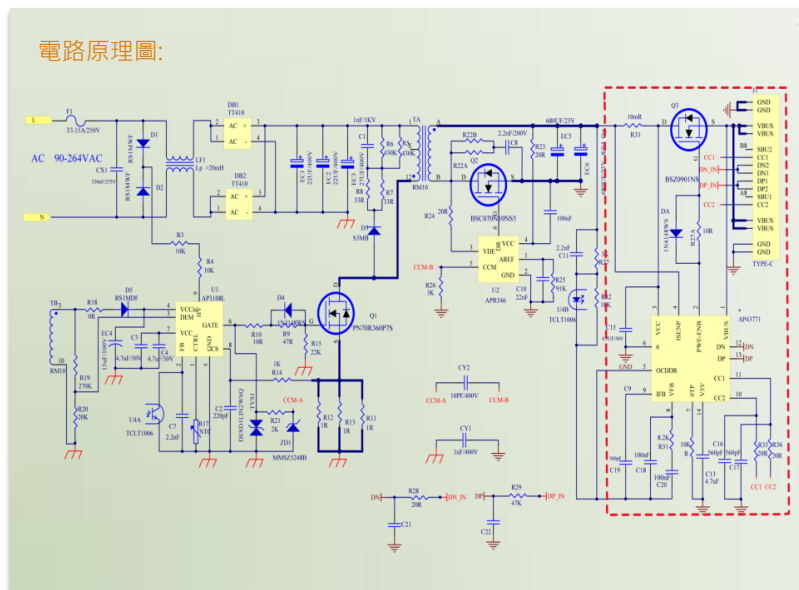


Zenitron Diodes Type-C AC Adapter 45W (All Diodes Solution)

應用範圍:

- 智能手機/平板/筆記本電腦充電器
- 電源適配器

電路原理圖:



使用器件:

- DIODES: AP3108L/APR346/AP43771/TT410
- DIODES :DMJ65H600SCTI/DMT10H010LPS-13.
- IFX:PN70360P7S/BSC07010NS5/BSZ0901NS.
- Nichicon Cap

Demo規格說明:

- AC Input : 90-264V 50/60Hz 1A
- DC Output :
 - 5V, 3.0A
 - 9V, 3.0A
 - 12V, 3.0A
 - 15V, 3.0A
 - 20V, 2.25A
- 高效率: 平均>89%.(91.2%,OUT 20V/2.25A @230Vac)
- 低待機功耗: < 30mW ,體積小 48*42*22 mm
- Support Non-USB PD Protocol Options
- Qualcomm QC 3.0/2.0 Built-in and USB PD 3.0 PPS

Block	Vendor	Part number	Description
Flyback		AP3108LGSTR-G1	PWM controller, SSOP-9
		S3MB-13-F	PASSIVATED RECTIFIER, 1000V/3A,SMB
		MMSZ5248B-7-F	Zener diode,18V/500mW,SOD123
		RS1MWF-13	Fast Rectifiers diode,1000V/1A,SOD123
Optical couple		IPN70R360P7S	N-ch, 700V/0.36m ohm, SOT223
		TCLT1006	CTR :100 to 300 SOP-4L
PD Controller		DESD1LIN2WSQ	Bidirectional TVS,25.4V & 17.1V/3A ,SOD-323
		1N4148WS-7-f	Fast Rectifiers diode,75V/150mA,SOD323
		AP43771FB-7	USB PD controller, U-DFN3030-14
		BSZ0901NS	N-ch, 30V/2.6m ohm,TSDSON-8
Rectifier & EMI Filter		TT410-13	Bridge Rectifier Diode,4A/1000V,
Synchronous rectification		APR346K6TR-G1	Synchronous rectification, SOT26
		BSC0805LS	N-ch, 100V/7m ohm, TDSON-8
		680UF/25V	680UF/25V,Solid Cap

Contact Us

Taipei (Headquarter)
joseph_hu@zenitron.com.tw

China-ShangHai
joyce_zheng@zenitron.com.cn

China-Shenzhen
Rich_tang@zenitron.com.cn