



XYT5080E USB 5V

1A

IC

XYT5080E

XYT5080E 5V USB
 0V
 9V
 XYT5080E 8.40V
 ESOP8
 XYT5080E
 XYT5080E USB
 5V
 USB AC
 XYT5080E
 1uA XYT5080E

XYT5080E

● 10W 2A
 ● 90%
 ● LED
 ● MOS
 ● 600Khz 2.2uH
 ● IC
 ● ESD 4KV

XYT5080E

ESOP8L

XYT5080E

VBUS

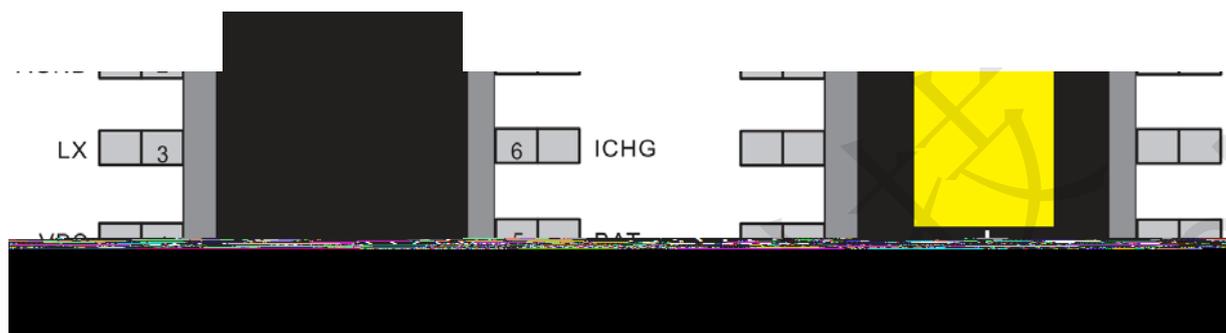




XYT5080E USB 5V 1A

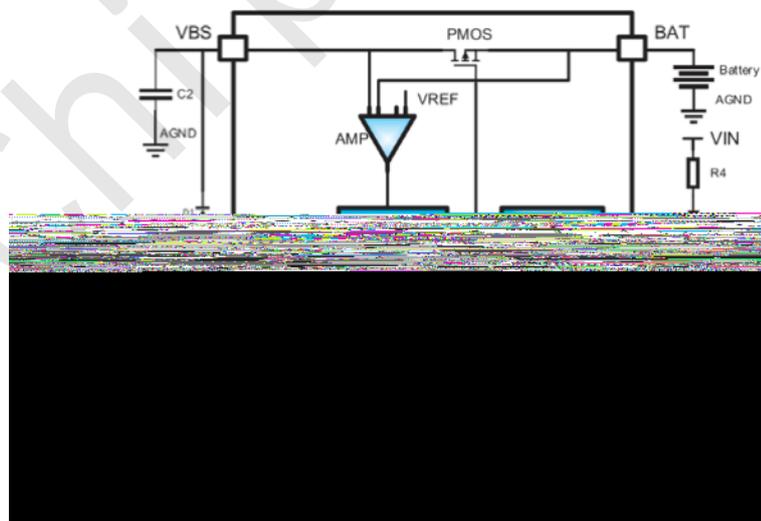
IC

XYT5080E



		/			
1	VIN			5V	
2	AGND				
3	LX		MOS		
4	VBS		BOOST		
5	BAT				
6	ICHG				
7	VSEN	VIN	Shutdown	VSEN	1.2V
		VSEN	0.4V		
8	STAT				
Thermal	PGND				

XYT5080E





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IC

XYT5080E

VDD		-0.3-8.0	V
LX	MOS	-0.3-20	V
VBS,BAT	VBS,BAT	-0.3-10	V
VI		-0.3 - VDD+0.3	V
Other PIN		-0.3-6.0	V
TJ		-40 ~ 150	
TSDR	10	260	
TSTG		-65 ~ 150	
θJA	---> ESOP8	40	/W
HBM	ESD	± 4	KV
HMM	ESD	± 4	KV

1.

2. PCB XYT5080E

XYT5080E

3.

XYT5080E

VDD		3.44V~7.0	V
TA		-40 ~ 85	
Tj		-40 ~ 125	

XYT5080E

XYT5080E	ESOP-8L		100pcs/ 10000pcs/
XYT5080E	ESOP-8L		4000pcs/

XYT5080E

VIN=5V RICHG=6.8K L=2.2uH

V _{IN}			3.60	5.0	7.0	V
V _{UVLO}		V _{IN}		3.45		V
V _{UVLO}				100		mV
V _{OVP}		V _{IN}		6.23		V
V _{OVP}				500		mV
I _{DD}				1		mA
		V _{BAT} V _{IN}		10.0		
I _{SD}		0.6V V _{BAT} V _{IN}		11.0		uA
		V _{BAT} 0.6V		8.0		
				22.0		
I _{BAT}		V _{BAT} =8.4V		3.8		uA
		V _{IN} =0V		0.02		
V _{CV}						V
V _{RCH}	Recharge			200		mV
V _{TRK}				5.6		V
V _{SHORT}				2		V
V _{TRON}	BLOCK	V _{BAT} V _{TRK} V _{TRON} =V _{BAT} -V _{IN}		170		mV
F _{SW}				600		Khz
R _{NFET}	NMOS			80		m
R _{PFET}	BLOCK PMOS			120		m
V _{ENH}	V _{SEN}		0.6			V
V _{ENL}	V _{SEN}				0.4	V
V _{OVPB}	BAT			8.80		V
I _{CC}				1000		mA
I _{TC}		RICHG=6.8K, V _{IN} =5V		120		mA
I _{BS}				55		mA
I _{TERM}				150		mA
A _I		A _I				

XYT5080E

XYT5080E 3.6V~5.5V 1A /

600Khz

XYT5080E / / V_{BAT} 2V

1/20 0V 2V

V_{BAT} 5.6V 1/10

5.6 V_{BAT} 8.4V

8.4V

100mA

8.2V

XYT5080E

V_{SHORT}

BLOCK

1/20



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1A

IC

XYT5080E

- ①. 6 " "
- ②. VIN VIN
- ③. 7 VSEN VSEN 1.2V

8.40V ± 1% 8.316V 8.484V

1/10

- ①
- ②
- ③
- ④
- ⑤

8.65V 1Hz

2V 1Hz

1/10

8.4V

LAYOUT PCB

PCB

PAD PCB PCB

PAD 6~9 PAD

1A

PCB

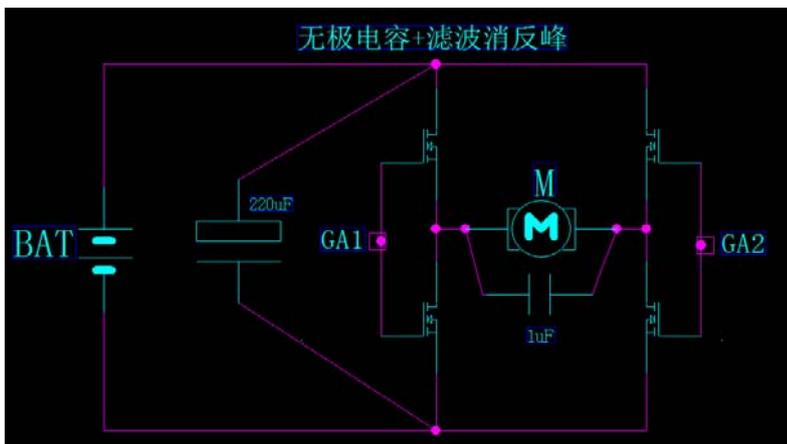
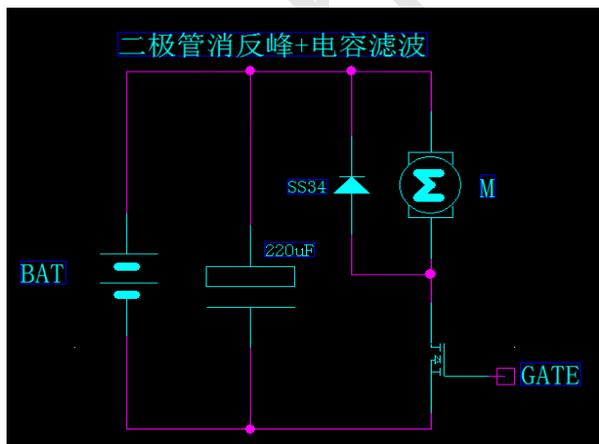
10V

5V

10V

10V

7V





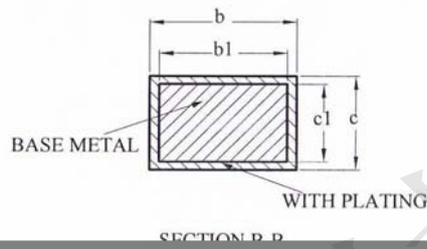
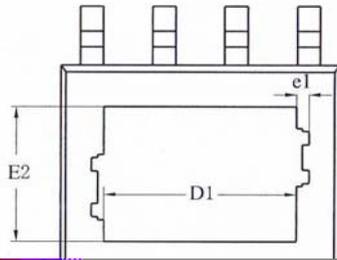
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ESOP-8L



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	—	—	1.65
A1	0.05	—	0.15
A2	1.30	1.40	1.50