



MX2120CB

2120CB /
 IC 2120-CB 2 /
 32V
 2120-CB
 4.28±0.025V
 2.90±0.100V
 0.20±0.02V
 1 1 2
 ()
 0V
 7µA
 0.1µA
 SOT-23-6



1.

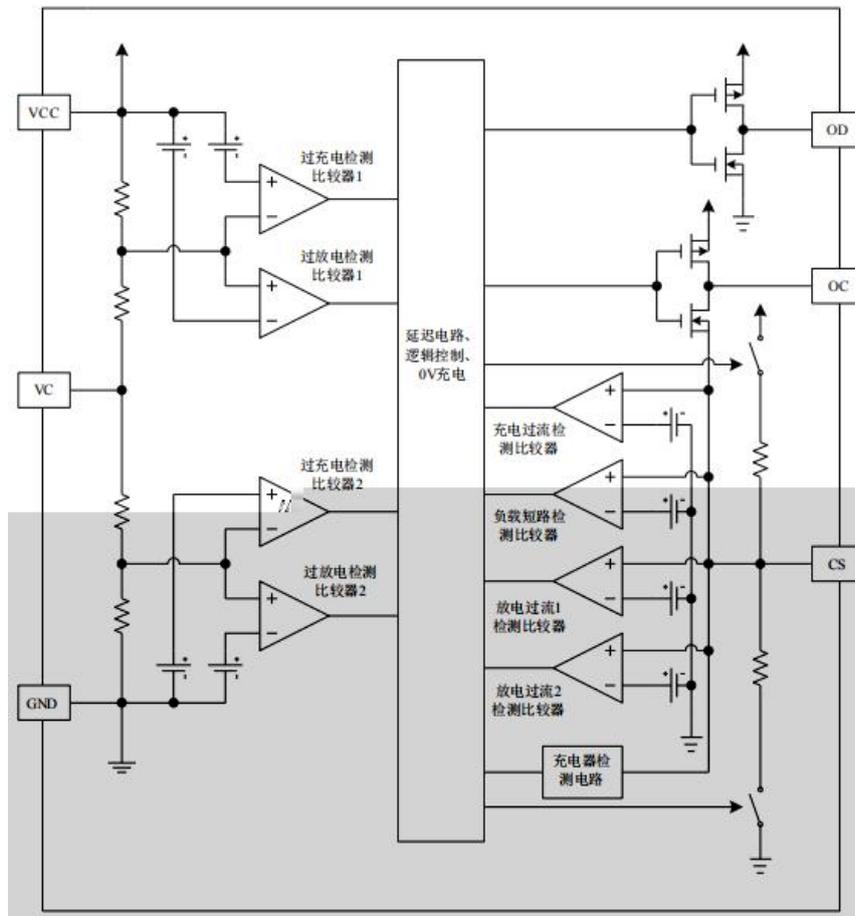
1	OD	FET
2	OC	FET
3	CS	CS-GND ()
4	VC	1 2
5	VCC	1
6	GND	2

1.



	(V _{CUn}) V	(V _{CLn}) V	(V _{DLn}) V	(V _{DU1,2}) V	(V _{OC1})mV
2120-CB	4.28±0.025	4.08±0.05	2.90±0.10	3.00±0.10	200±20

2.



2.



VCC-GND	*1	V _{CC}	VCC	GND-0.3~GND+13	V
VC		V _{VC}	VC	GND-0.3~V _{CC} +0.3	V
CS		V _{CS}	CS	V _{CC} -30~V _{CC} +0.3	V
OD		V _{OD}	OD	GND-0.3~V _{CC} +0.3	V
OC		V _{OC}	OC	V _{CS} -0.3~V _{CC} +0.3	V
		P _D	—	245	mW
		T _{OP}	—	-40~+85	
		T _{ST}	—	-40~+125	

*1 GND+12V us IC,
2.

	V _{CU1,2}	—	V _{CU_n} -0.025	V _{CU_n}	V _{CU_n} +0.025	V
	V _{CL1,2}	—	V _{CU_n} -0.05	V _{CL_n}	V _{CU_n} +0.05	V
	V _{DL1,2}	—	V _{DL_n} -0.10	V _{DL_n}	V _{DL_n} +0.10	V
	V _{DU1,2}	—	V _{DU_n} -0.10	V _{DU_n}	V _{DU_n} +0.10	V
1	V _{OC1}	—	0.18	0.20	0.22	V
2	V _{OC2}	—	0.30	0.38	0.46	V
	V _{SIP}	—	0.8	1.0	1.2	V
	V _{COC}	—	-0.25	-0.20	-0.15	V
	V _{CHG}	—	-0.25	-0.20	-0.15	V
	t _{CU}	V1=3.5V V2=3.5V→4.5V	0.9	1.3	1.7	s
	t _{DL}	V1=3.5V V2=3.5V→2.5V	120	160	200	ms
	t _{COC}	V _{CS} =0V→-0.25V	6	10	14	ms
1	t _{OC1}	V _{CS} =0V→-0.25V	6	10	14	ms
2	t _{OC2}	V _{CS} =0V→0.7V	2	5	8	ms



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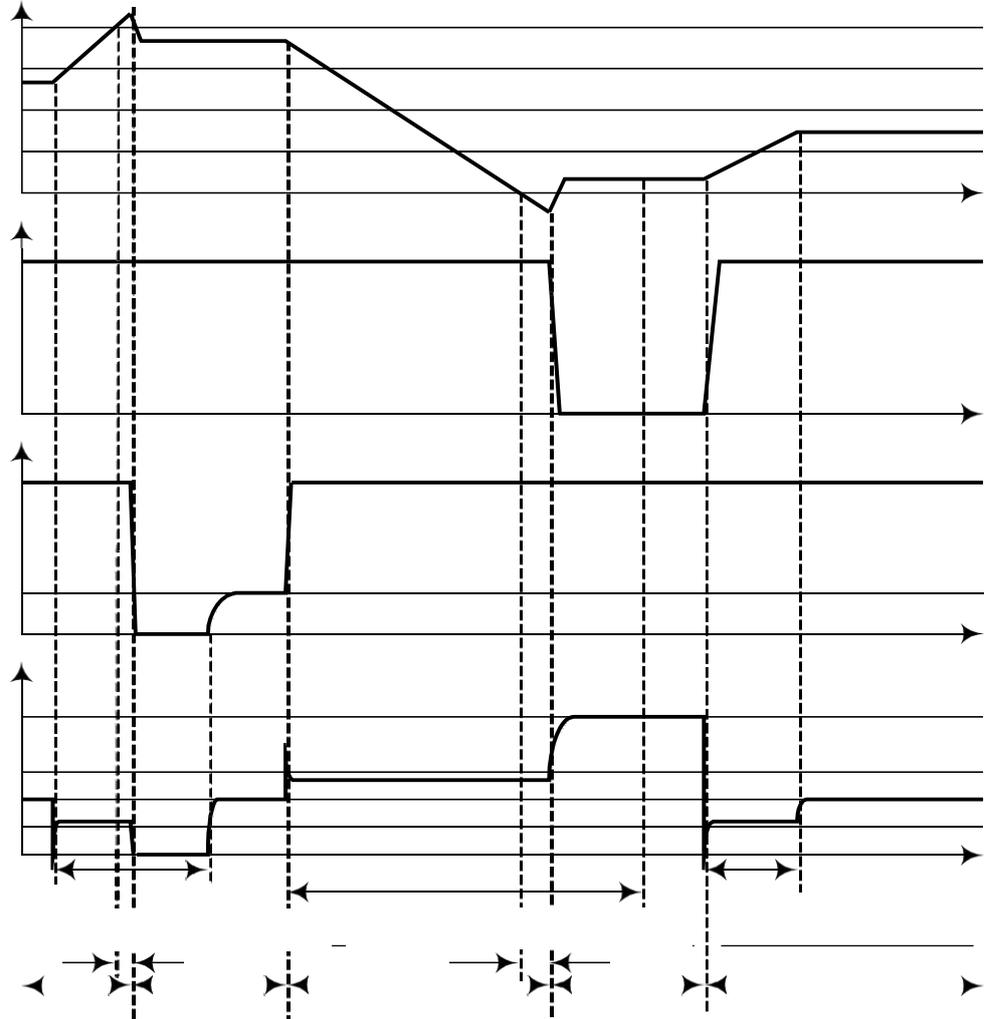
(Ta= 25 V1=V2=3.5V)

	t _{SIP}	V _{CS} =0V→1.5V	100	200	400	μs
0V						
0 V	V _{OCHA}	0 V	1.2	—	—	V
CS-VCC	R _{CSC}	V1=V2=1.5V, V _{CS} =0V	100	300	900	kΩ
CS-GND	R _{CSD}	V1=V2=3.5V, V _{CS} =1.0V	5	10	20	kΩ
VCC-GND	V _{DSOP}		1.5	—	10	V
VCC-CS	V _{DMOP}		1.5	—	30	V
	I _{OPE}	V1=V2=3.5V, V _{CS} =0V	—	7	12	μA
	I _{PD}	V1=V2=1.5V, V _{CS} =3V	—	—	0.1	μA
VC	I _{VC}	V1=V2=3.5V, V _{CS} =0V	—	—	0.1	μA
OC "H"	R _{OC(H)}	V _{OC} =V _{CC} -0.5V	2	5	10	kΩ
OC "L"	R _{OC(L)}	V _{OC} =V _{CS} +0.5V	2	4.5	8	MΩ
OD "H"	R _{OD(H)}	V _{OD} =V _{CC} -0.5V	2	5	10	kΩ
OD "L"	R _{OD(L)}	V _{OD} =GND+0.5V	2	5	10	kΩ

3.



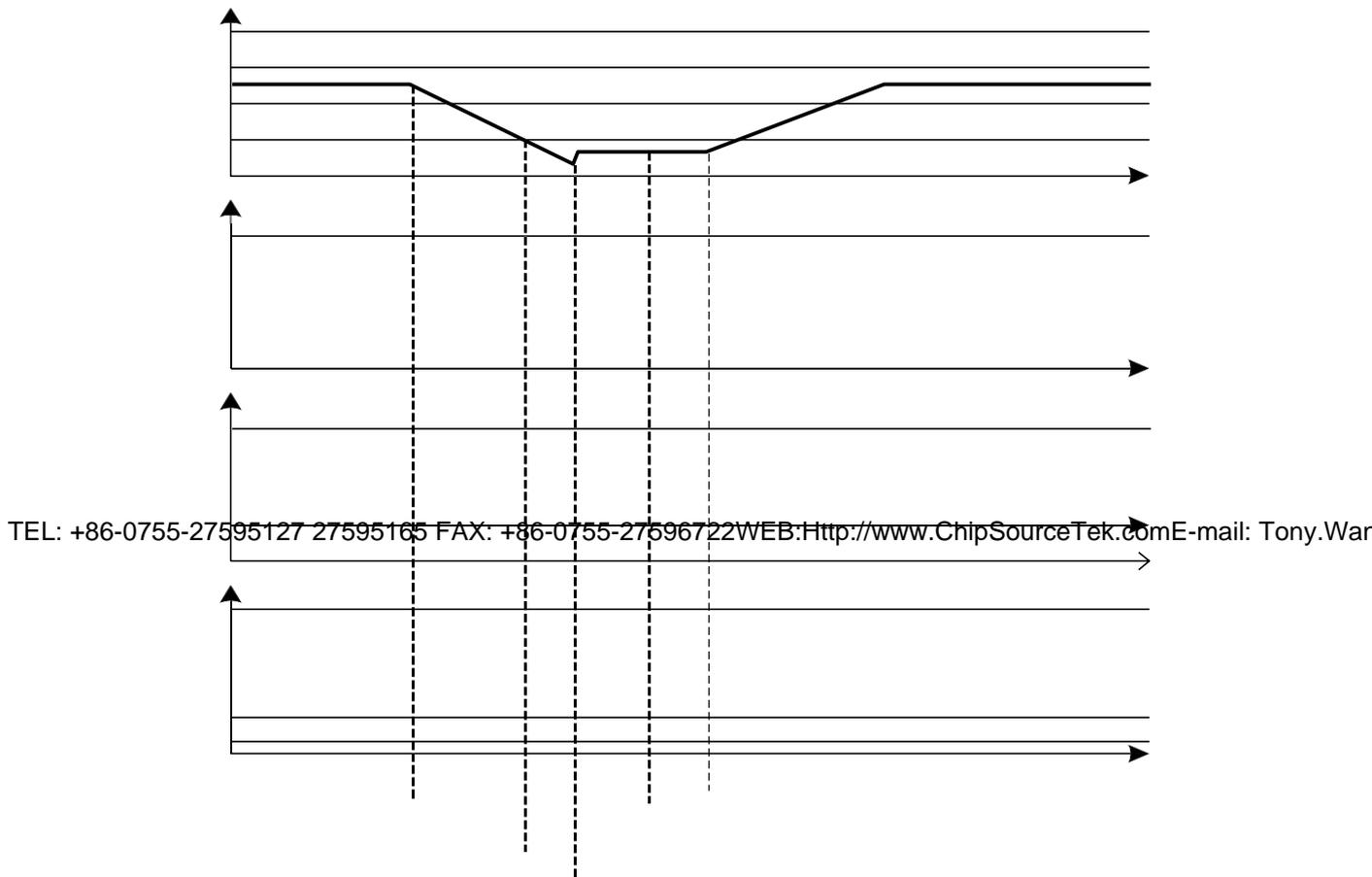
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*1.

3.

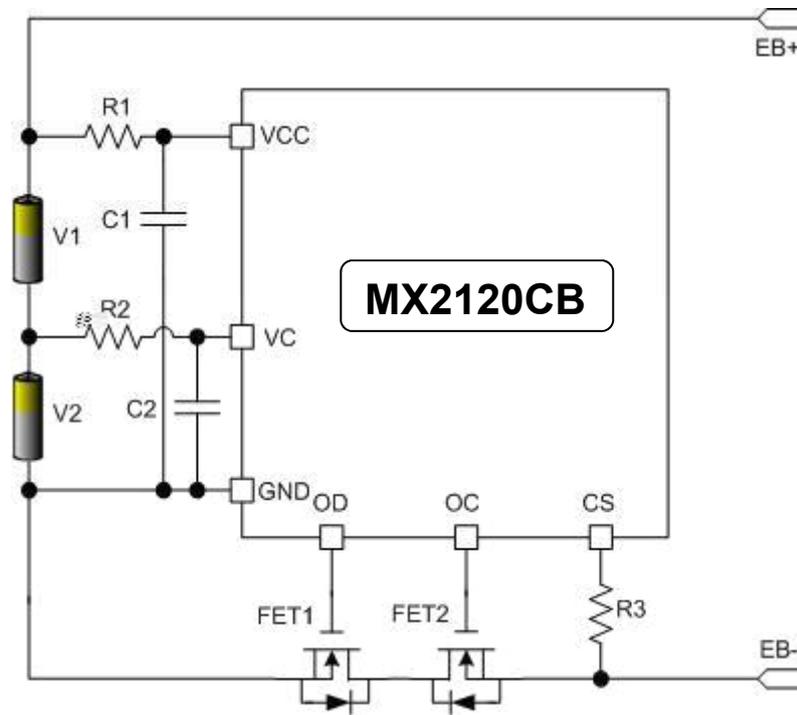
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*1.

5.

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6. 2120CB

FET1	N MOSFET		-	-	-
FET2	N MOSFET		-	-	-
R1		ESD	300Ω	470Ω	1kΩ
C1			0.022uF	0.1uF	1uF
R2		ESD	300Ω	470Ω	1kΩ
C2			0.022uF	0.1uF	1uF
R3			300Ω	2kΩ	4kΩ

5.



:SOT23-6

