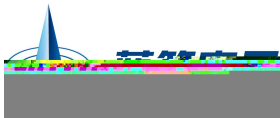
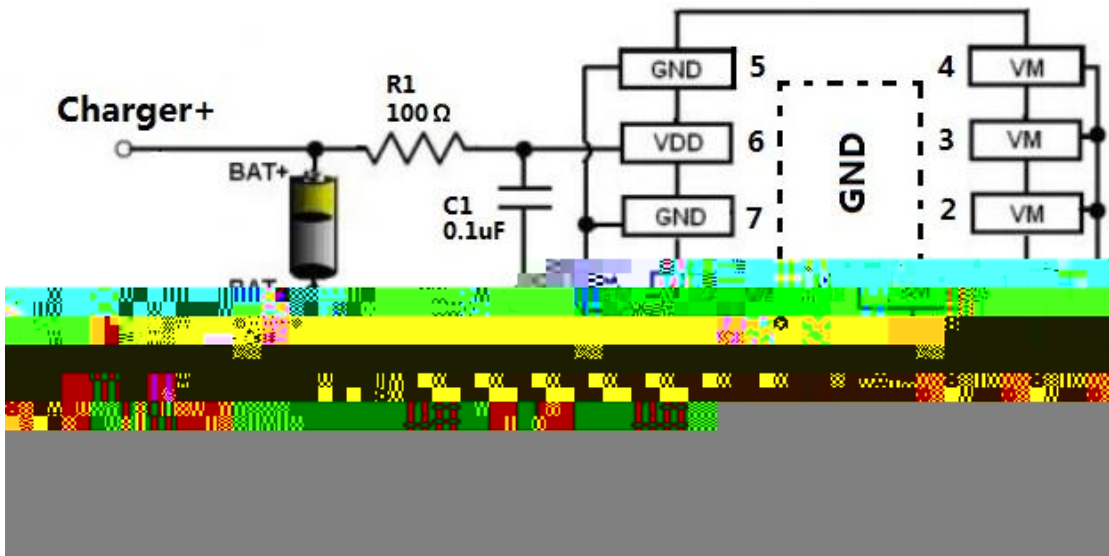


E	2018-4				
F	2019-4-3	1			
G	2020-1-3		RDSON 25mR	SX	

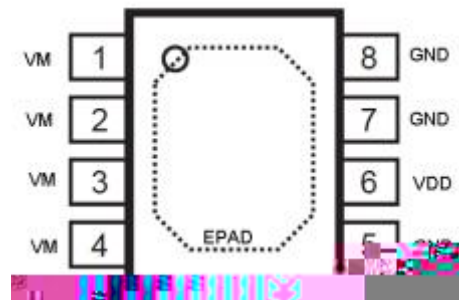
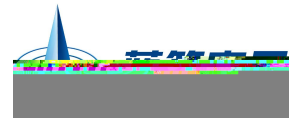


BRCL3120SE / BRCL3120SE
MOSFET
BRCL3120SE

- ◆ 25mΩ MOSFET
- ◆
- ◆ 2
- ◆ 0V
- ◆ 5.6uA 3uA; ROHS
- ◆

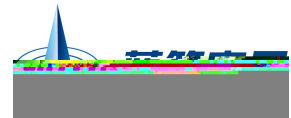


- 1.
- 2.



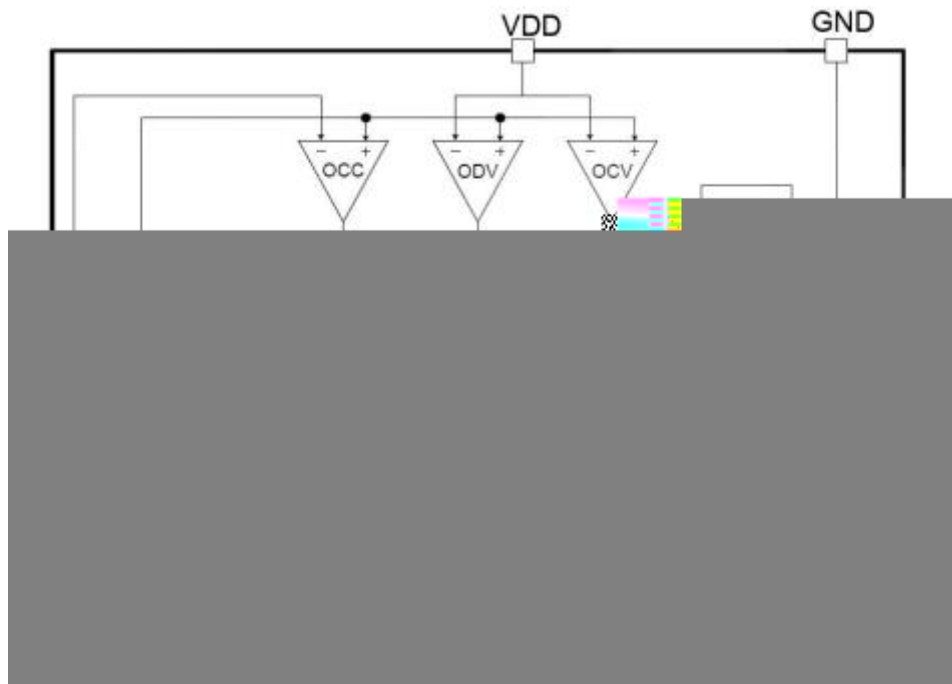
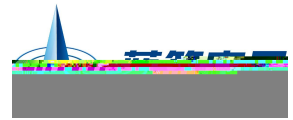
1 2 3 4	VM	GND
5 7 8	GND	
6	VDD	
9	EPAD	EPAD BRCL3120SE ,GND

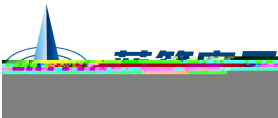
See Marking Instructions.



VDD	V_{IN}	-0.3 to +6.0	V
VM	V_{VM}	-6.0 to +10	V
	T_J	125	°C
	T_L	300	°C
	T_{opr}	-40 to +85	°C
	T_{stg}	-55 to +150	°C
	ESD	2000	V

	V_{CU}		4.25	4.30	4.35	V
	V_{CL}		4.05	4.10	4.15	V
	V_{DL}		2.30	2.40	2.50	V
	V_{DR}		2.90	3.00	3.10	V
	V_{CHA}			-0.12		V
1	I_{IOV1}	$V_{dd}=3.5V$		6		A
	I_{SHORT}	$V_{dd}=3.5V$		25		A
	I_{OPE}	$V_{dd}=3.5V, V_M=0V$		5	12	μA
	I_{PDN}	$V_{dd}=2V, V_M$ floating		3	12	μA
	R_{DS}	$V_{dd}=3.6V, I_{VM}=1A$		25		mΩ
				120		°C
				100		°C
	T_{CU}	$V_{DD}=3.6V\sim4.4V$		130	200	ms
	T_{DL}	$V_{DD}=3.6V\sim2.0V$		40	60	ms
1	T_{IOV1}	$V_{DD}=3.6V$		8.0		ms
	T_{SHORT}	$V_{DD}=3.6V$		32		μS





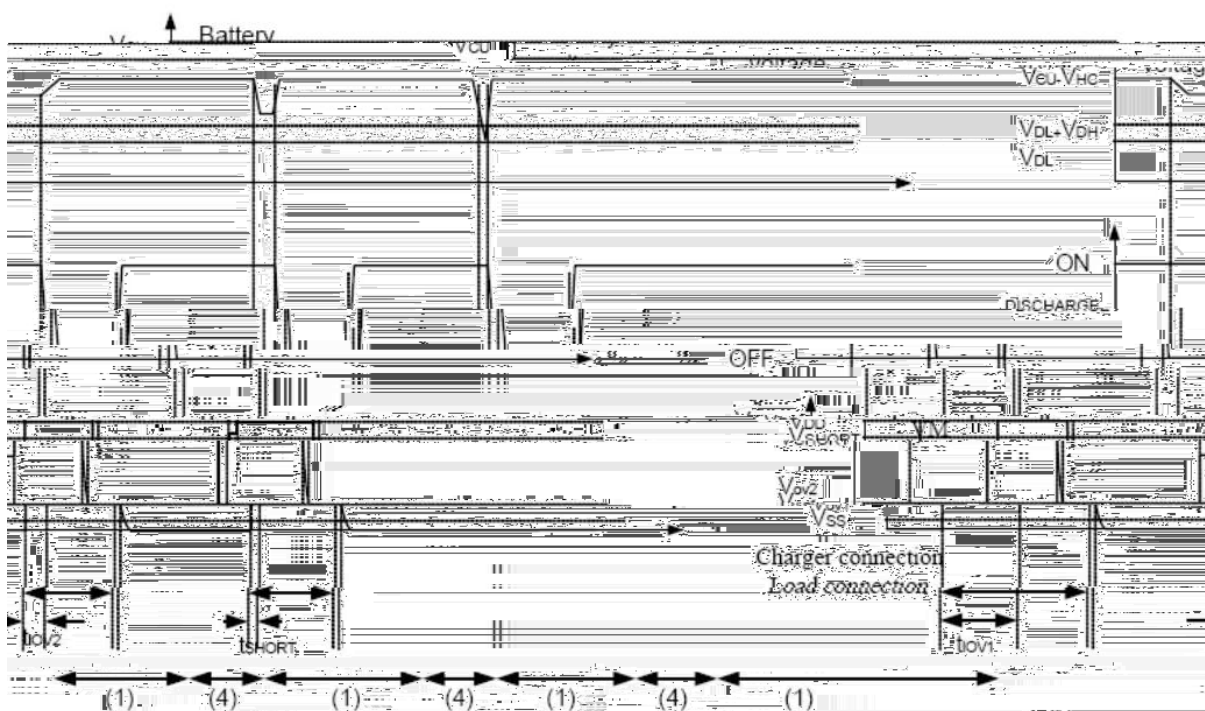
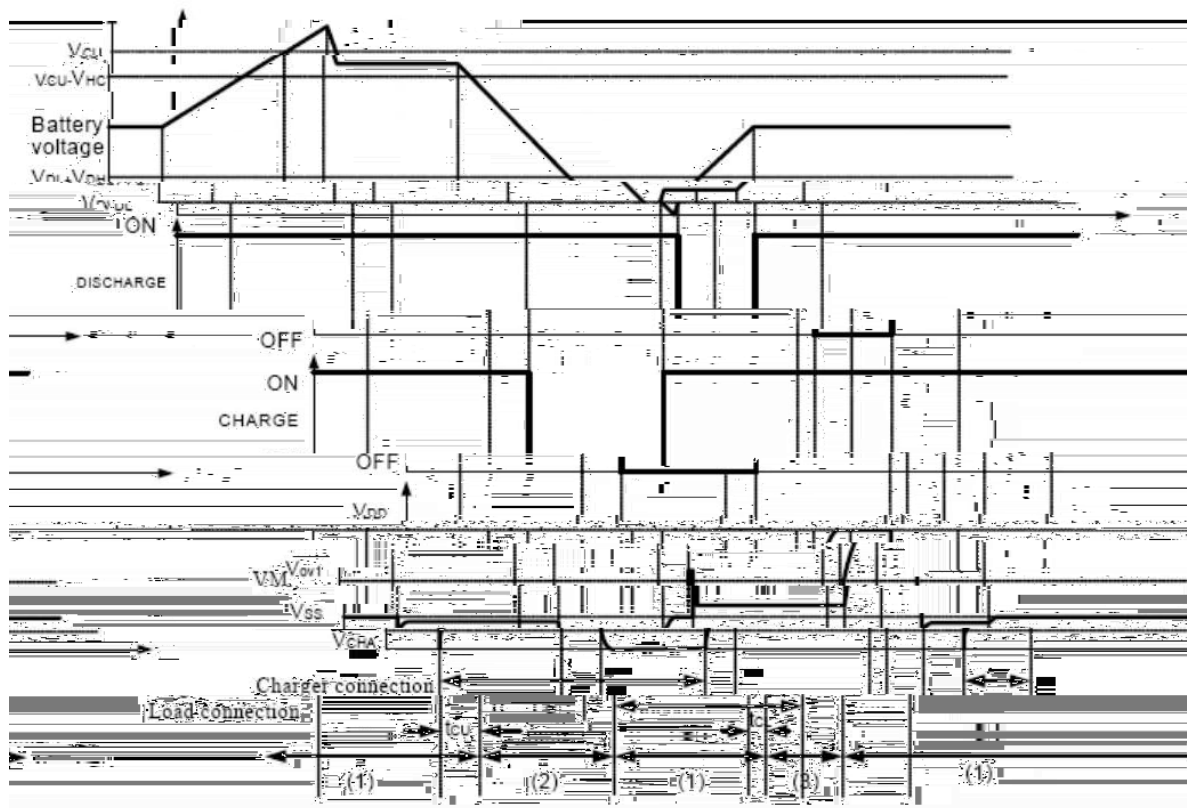
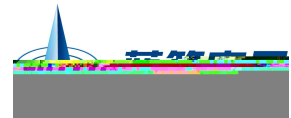
VM VDL ,
TDL BRCL3120SE
FET VM VDD RVMD
IPDN VM
VDD RVMD VM VCHA
FET (VDL)
BRCL3120SE FET
VM VCHA ,
VDR

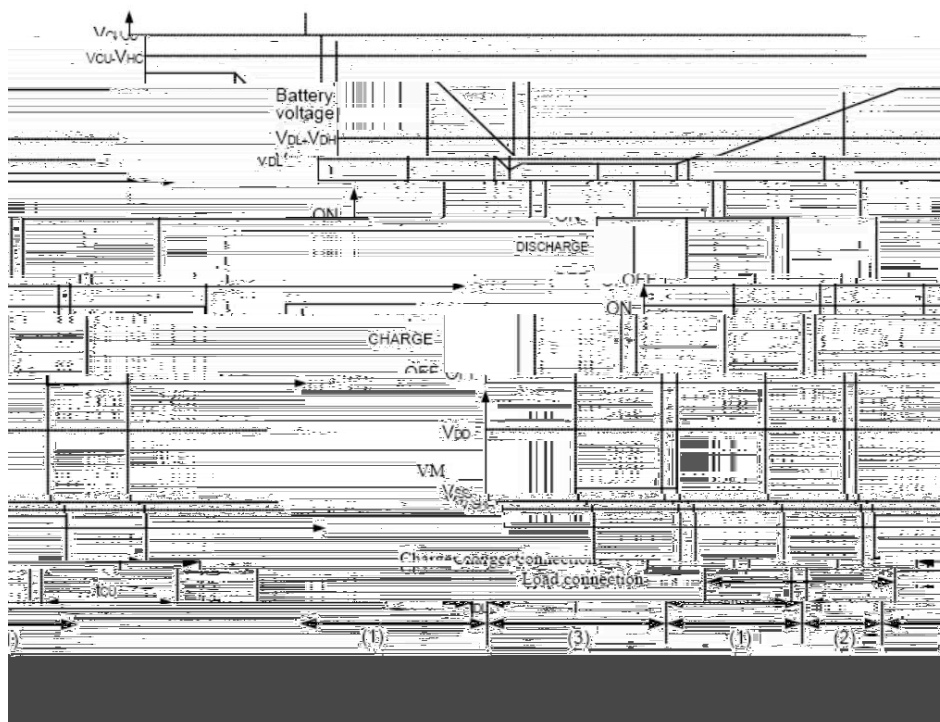
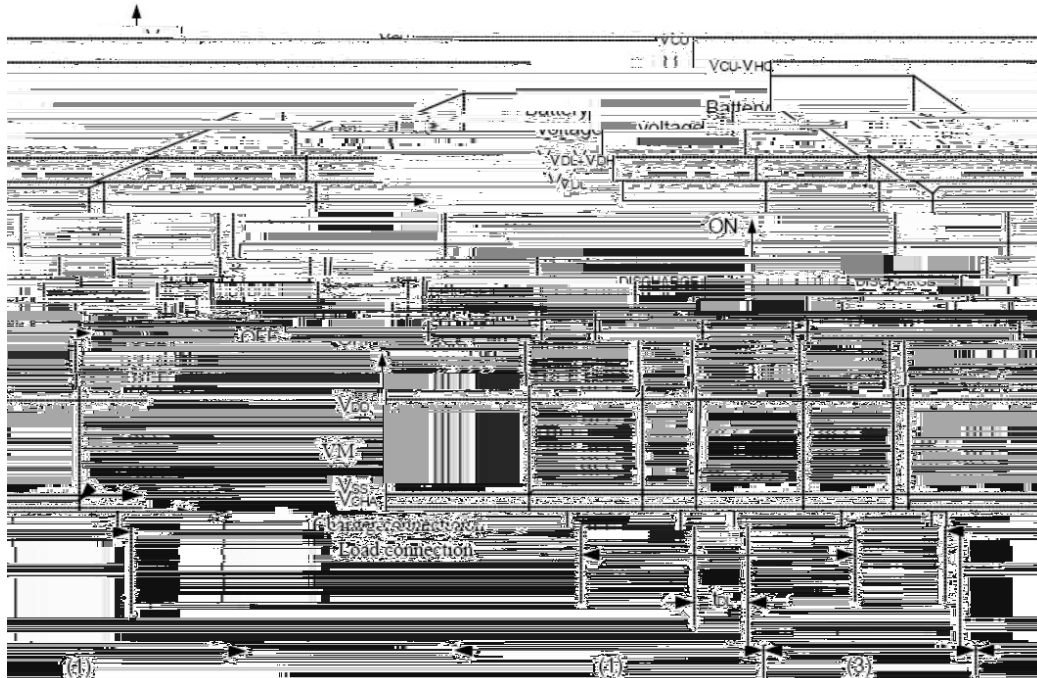
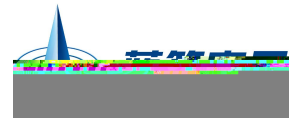
VM
FET
BRCL3120SE
1 2
VM GND RVMS
VM VDD
VM RVMS
VM
1

VM (VCHA)
BRCL3120SE FET
VM GND (VCHA)
0V 0V

VM V_{SHORT} t_{SHORT}
BRCL3120SE VM V_{SHORT}

0V
0V
1. VDL IC
“ 0V ” “ 0V ”
2. “ 0V ” “ ” “ 0V
” IC VDL
3. VM GND VM GND



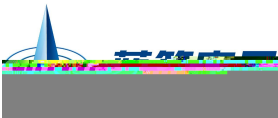


1

2

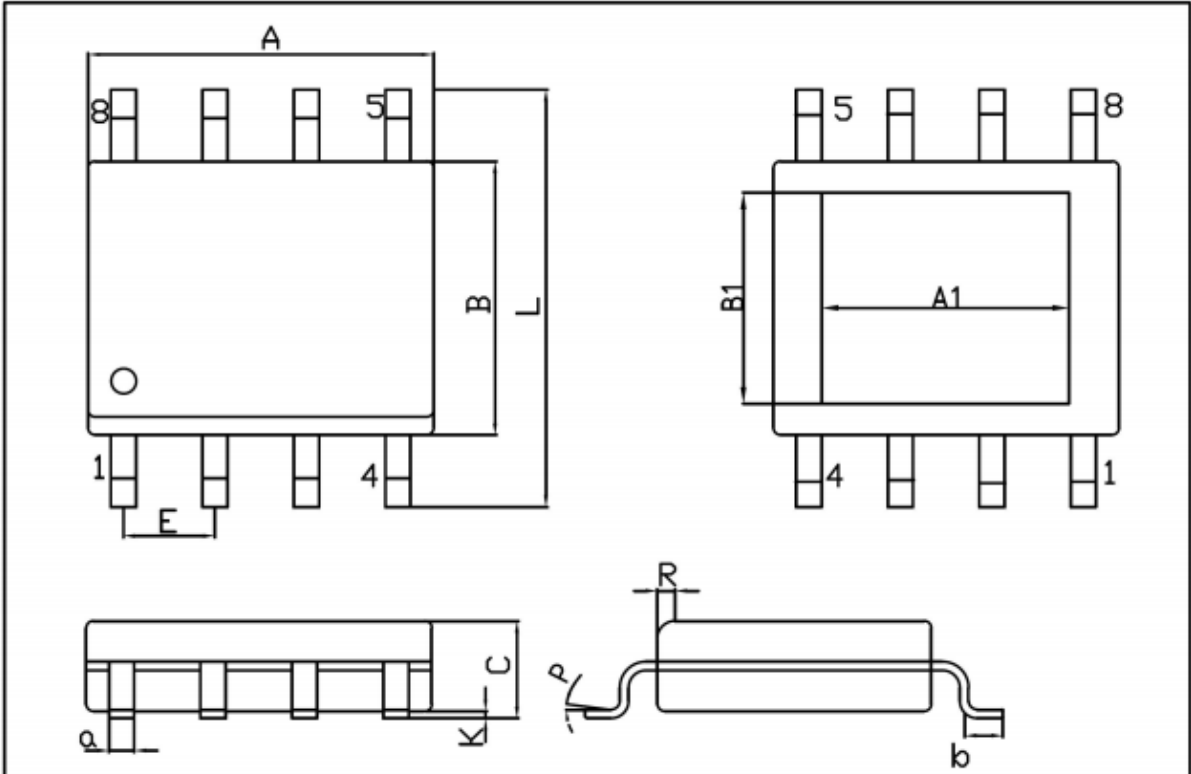
3

4

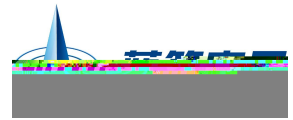


ESOP-8

Unit:mm



Dimensions in millimeters		Dimensions in millimeters		Dimensions in millimeters	
Symbol	Min	Max	Symbol	Min	Max
A	4.70	5.10	C	1.3	
B	3.70	4.10	a	0.3	
L	6.00	6.40	R	0.10	
E	1.27BSC		P	0.1	
K	0.02	0.10	b	0.4	
A1	3.1	3.5	B1	2.4	



BR:

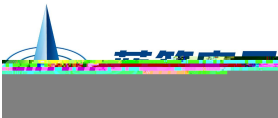
3120

Note:

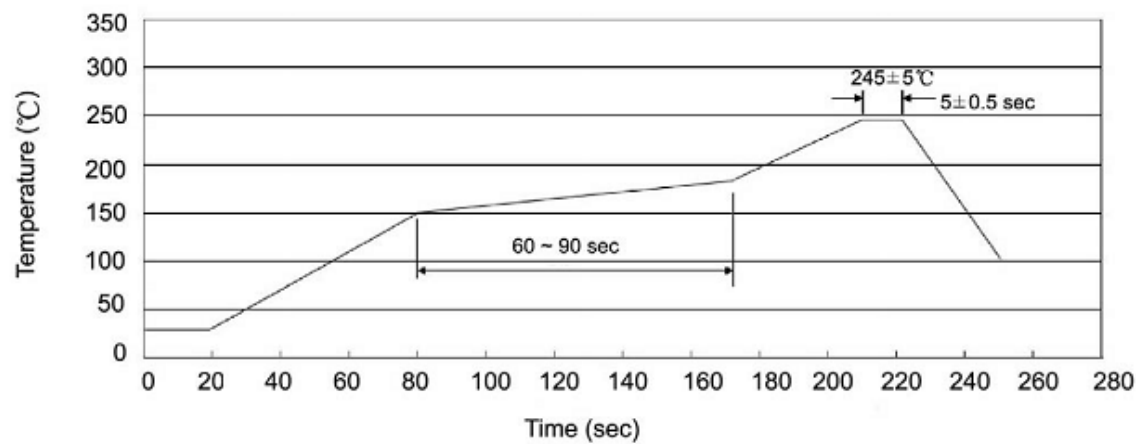
BR: Company Code

3120: Product Type.

****: Lot No. Code, code change with Lot No.



Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- | | | | | | |
|---|-------|-----|-----------|--------|---|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245±5 | | 5±0.5sec; | | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
ESOP-8	4,000	2	8,000	6	48,000	13" ×12	360×360×50	385×257×392