



C	2018-4				
D	2019-1-12	1			
E	2020-1-3		SX Rdson 50		
F	2021-4-13	2	3230		



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BRCL3130MC / BRCL3130MC
MOSFET
BRCL3130MC SOT23-3
BRCL3130MC

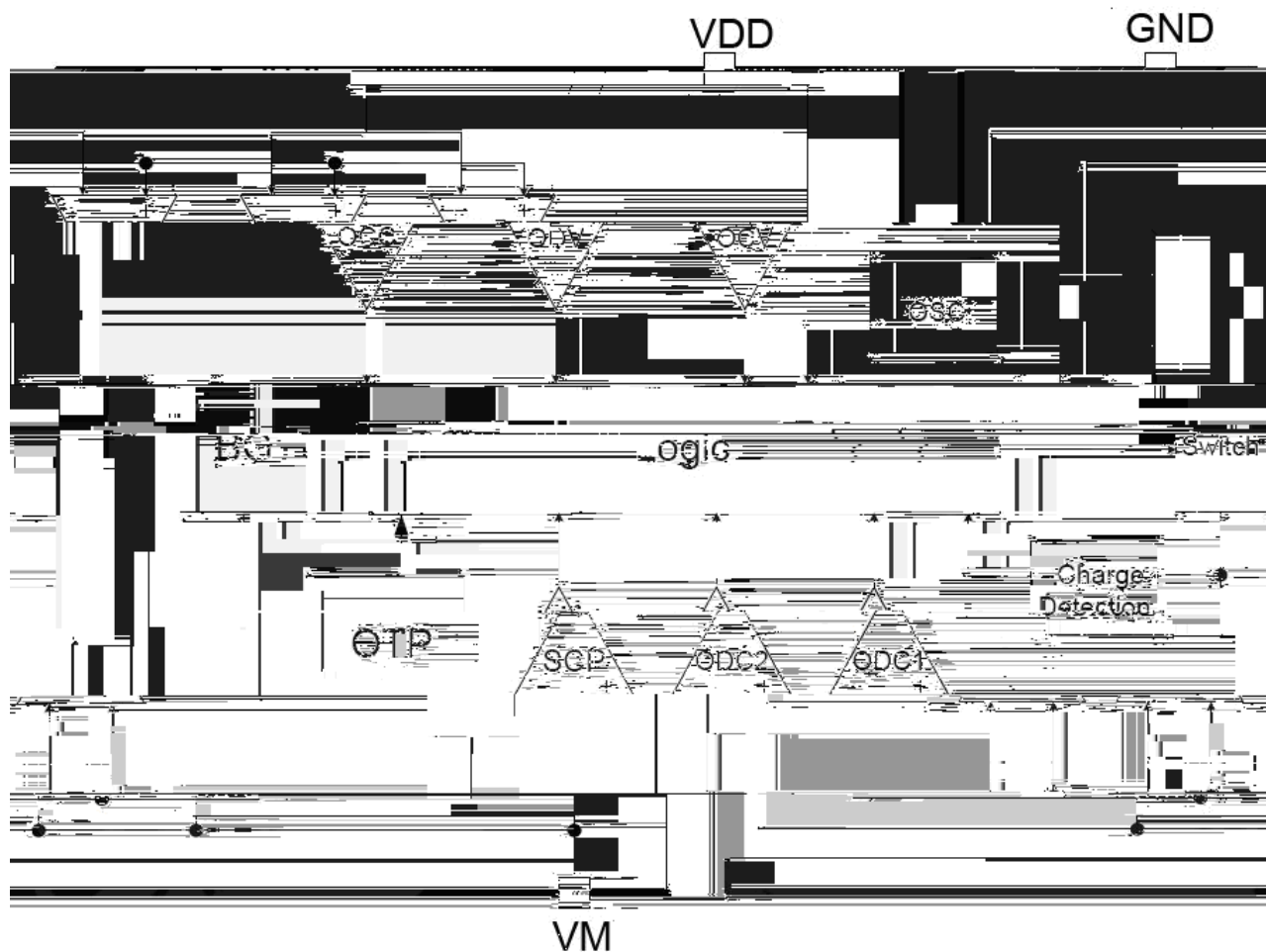
The BRCL3130MC series product is a high integration solution for lithium-ion/polymer battery protection. BRCL3130MC contains advanced power MOSFET, high-

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/Parameter	/Symbol	/Value	/Unit
V _{DD} input pin voltage	V _{IN}	-0.3 to +6.0	V
V _M input pin voltage	V _{VM}	-6.0 to +10	V
Power Dissipation	P _D	400	mW
Maximum Junction Temperature	T _J	125	°C
Lead Temperature	T _L	300	°C
Operating Junction Temperature	T _{opr}	-40 to +85	°C Operati



BRCL3130MC

MOSFET

50mΩ

The BRCL3130MC monitors the voltage and current of a battery and protects it from being damaged due to overcharge voltage, overdischarge voltage, overdischarge current, and short circuit conditions by discon



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TCU BRCL3130MC FET VCU ,

1 VCL BRCL3130MC

2 BRCL3130MC

BRCL3130MC VM 0.7V

VCU BRCL3130MC VCU

VCU VCU

VM 1

VCU

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TDL

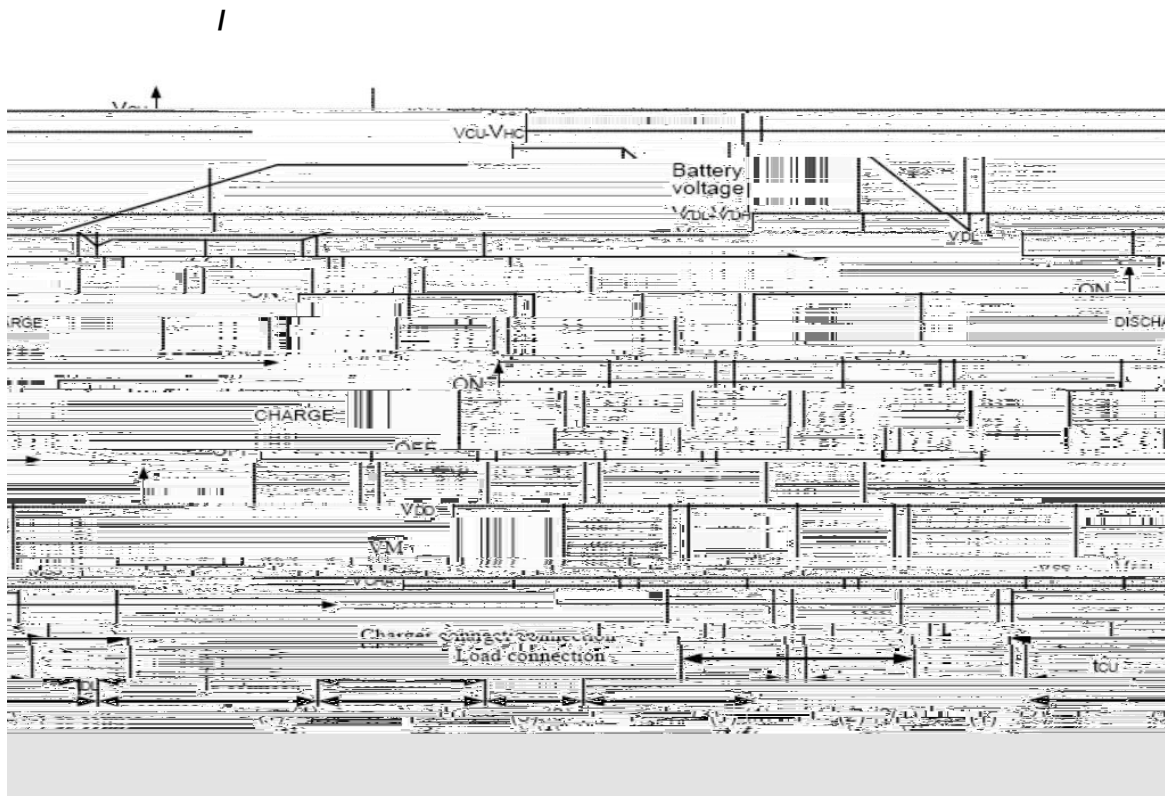
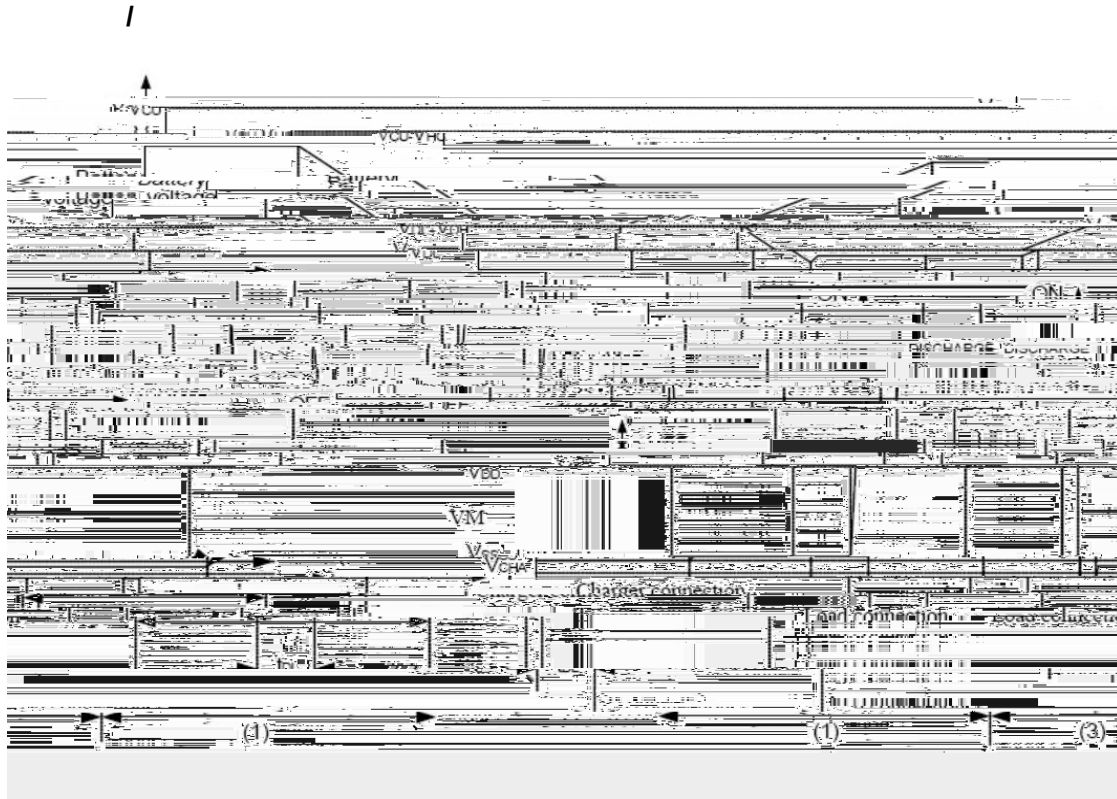
BRCL3130MC

VDL

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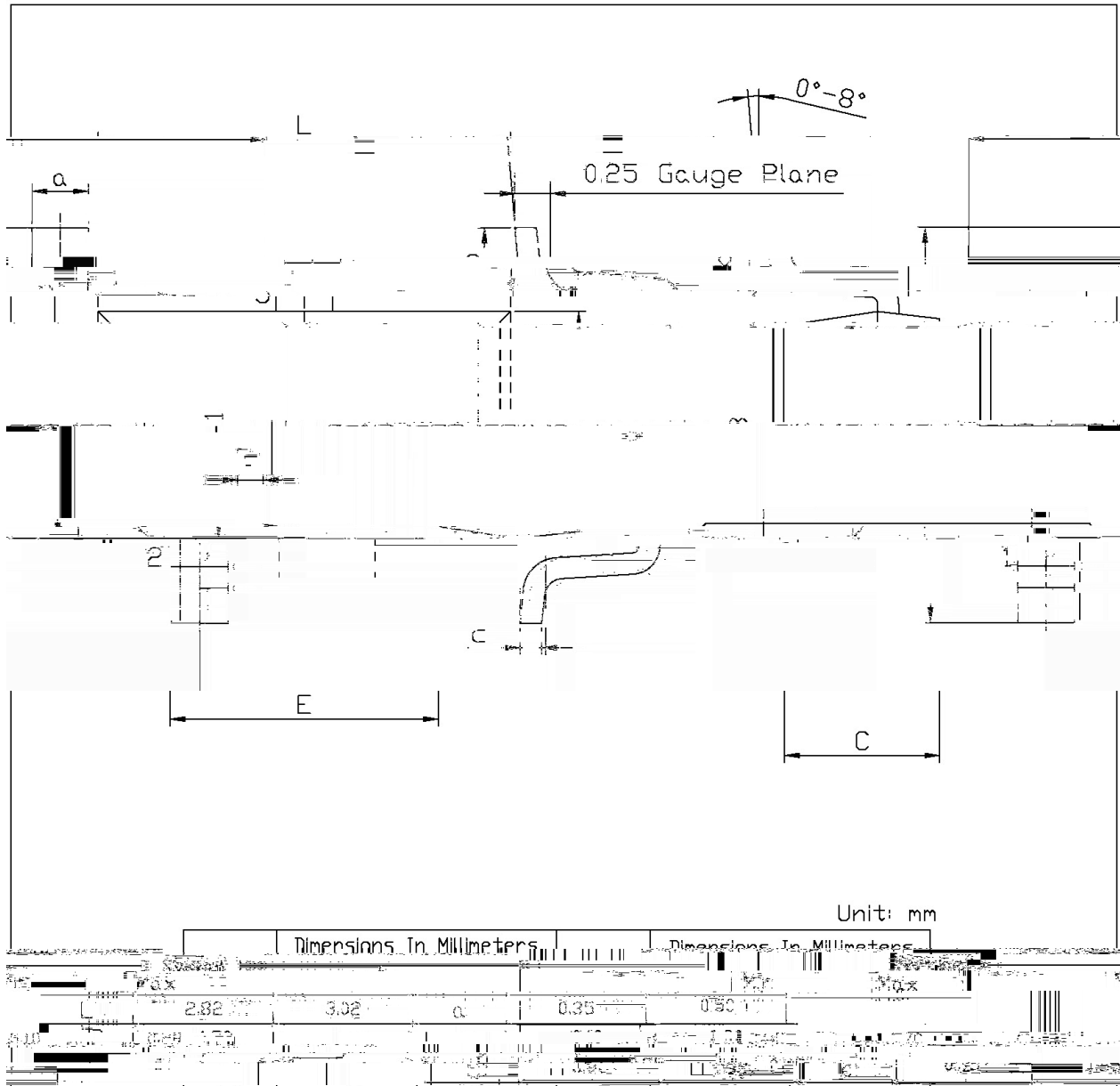
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Notes: (1) Normal condition (2) Overcharge voltage condition (3) Overdischarge voltage condition (4) Overcurrent condition



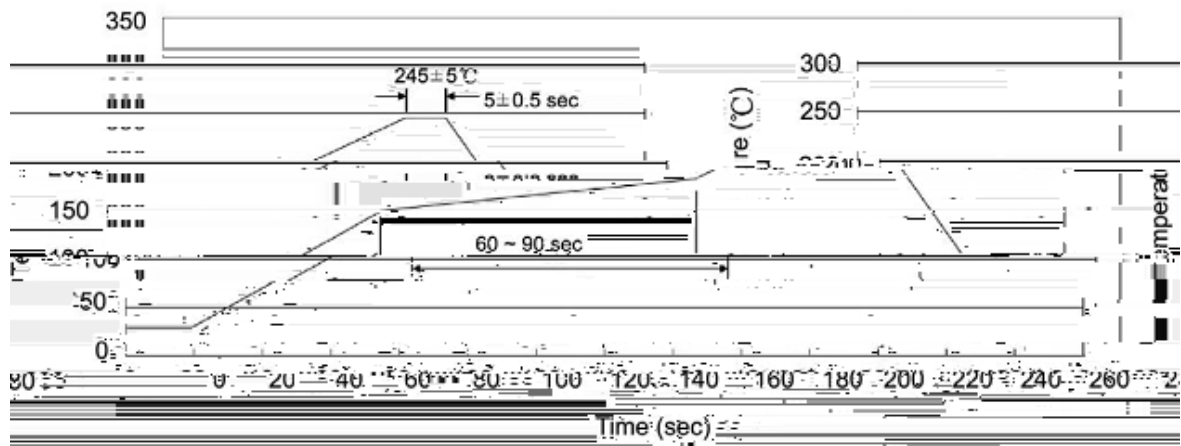
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Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

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

260±5°C	10±1 sec.	Temp.:260±5°C	Time:10±1 sec
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/ REEL

		3
Units/Reel		