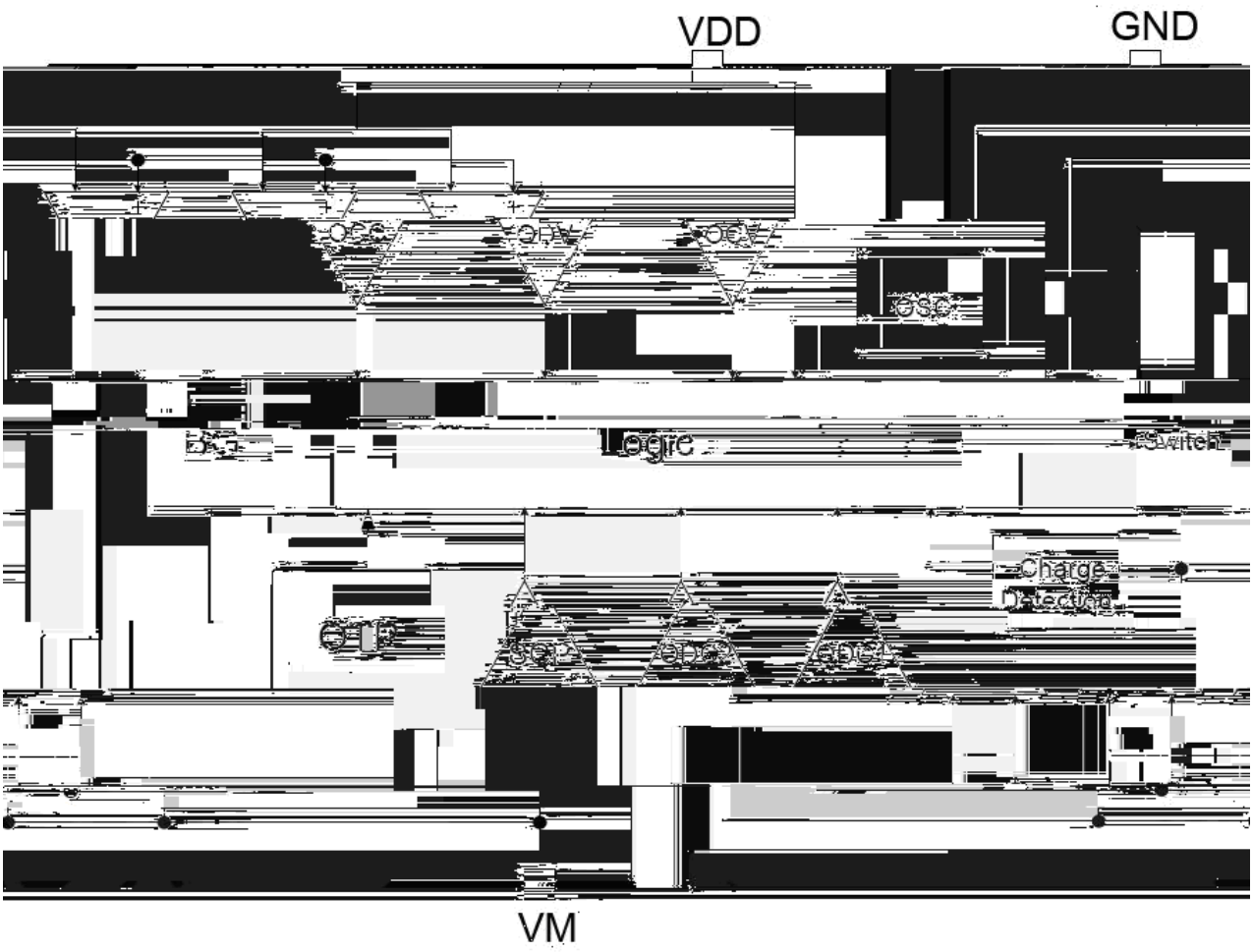
| | | | | | |
|---|---|---|---|---|---|
| C | 2018-4 | | | | |
| D | 2019-1-12 | 1 | | | |
| E | 2020-1-3 | | SX Rdson<br>50 | | |
| F | 2021-4-13 | 2 | 3230 | | |
| | | | | | |
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| | | | | | |
| | | | | | |

BRCL3130MC / BRCL3130MC
MOSFET
BRCL3130MC SOT23-3
BRCL3130MC

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

| /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 | ℃ |
| Lead Temperature | $T_L$ | 300 | ℃ |
| Operating Junction Temperature | $T_{opr}$ | [illegible] to +85 | ℃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

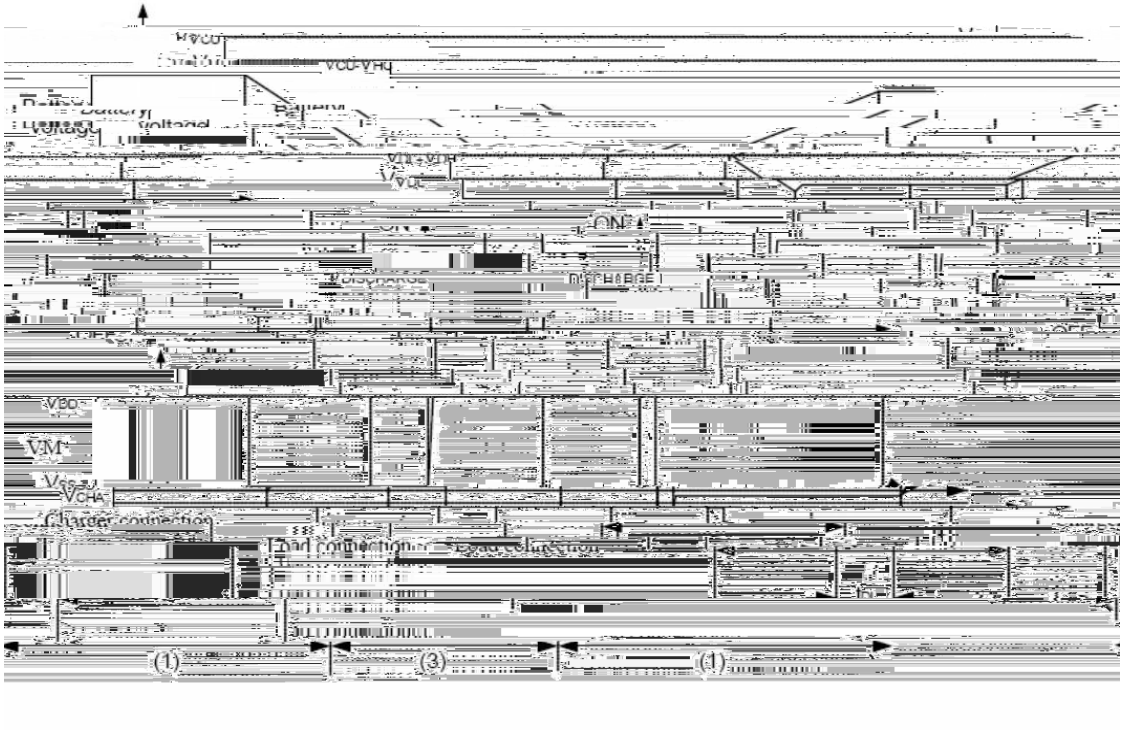
VCU ,
TCU BRCL3130MC FET

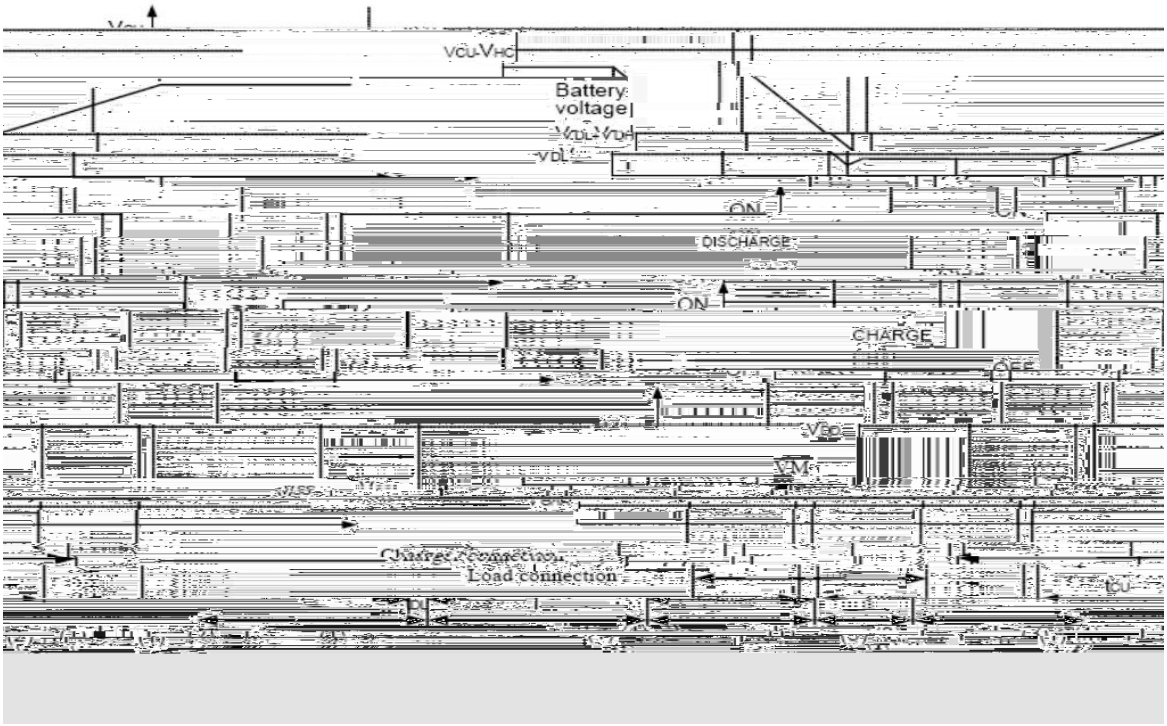
1 VCL BRCL3130MC
2 BRCL3130MC
VM 0.7V
BRCL3130MC VCU
VCU BRCL3130MC VCU
VCU
VM 1
VCU

VDL ,

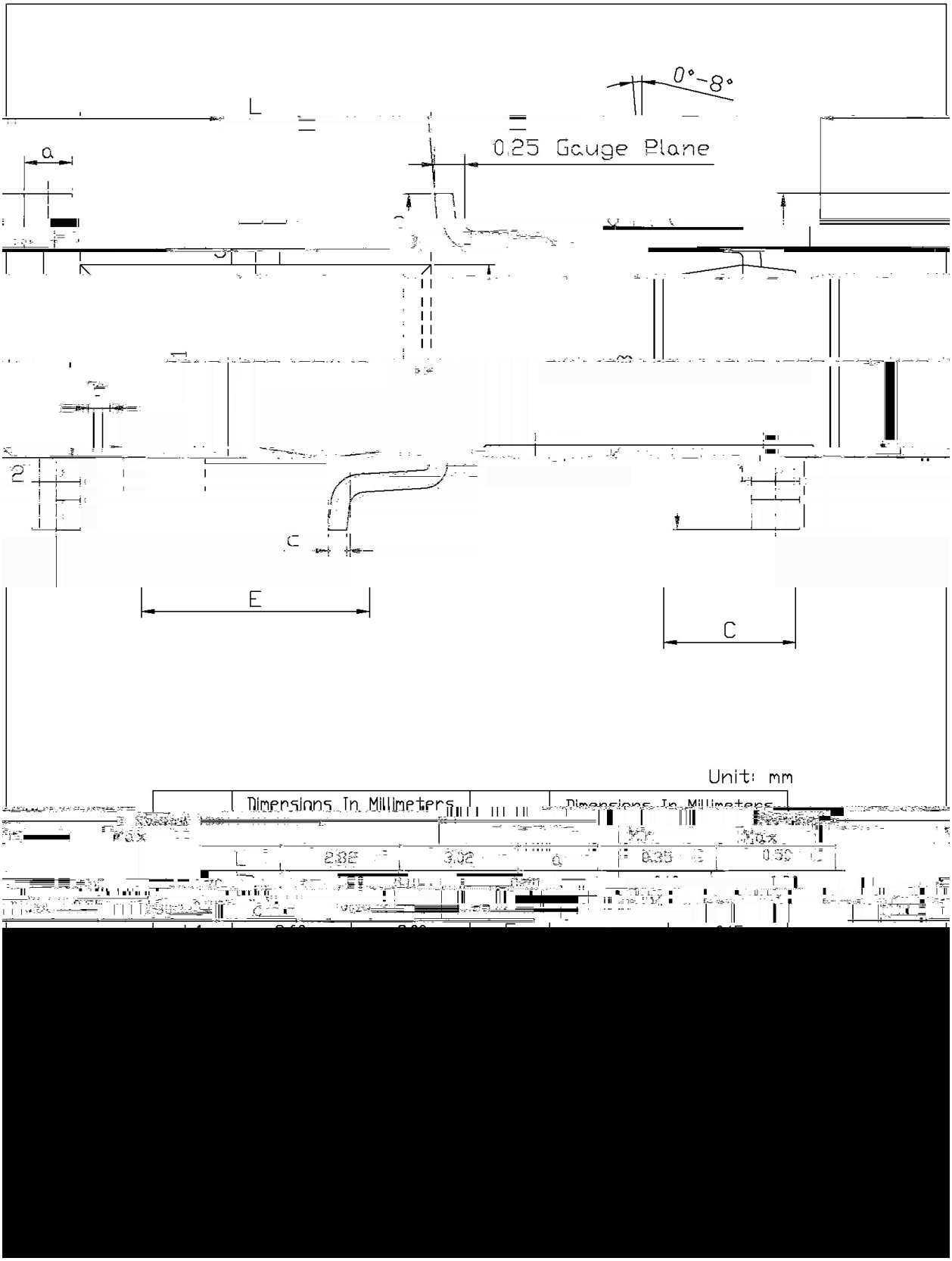
TDL BRCL3130MC

Rev. F Apr.-2021

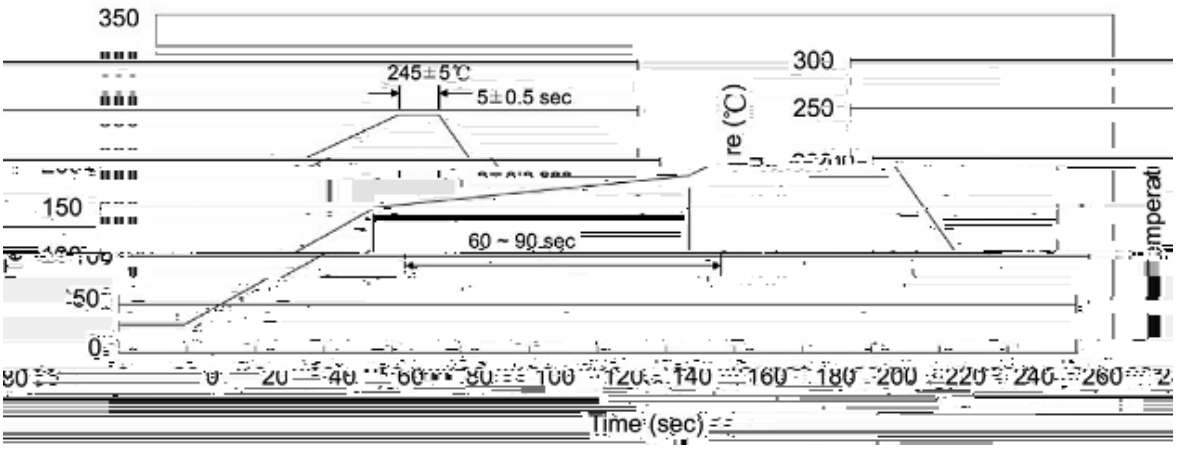



Notes: (1) Normal condition (2) Overcharge voltage condition (3) Overdischarge voltage condition (4) Overcurrent condition


0°-8°
L
0.25 Gauge Plane
a
2
c
E
C
Unit: mm
Dimensions In Millimeters
Dimensions In Millimeters
Max
Max
L
2.82
3.02
0.30
0.50

w




| | | | | | |
|---|---|---|---|---|---|
| | | | | Note: | |
| 1 | 150 | 180 | 60 | 1.Preheating:150~180℃, Time:60~90sec. | 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

| | | |
|---|---|---|
| | | 3 |
| | Units/Reel | |