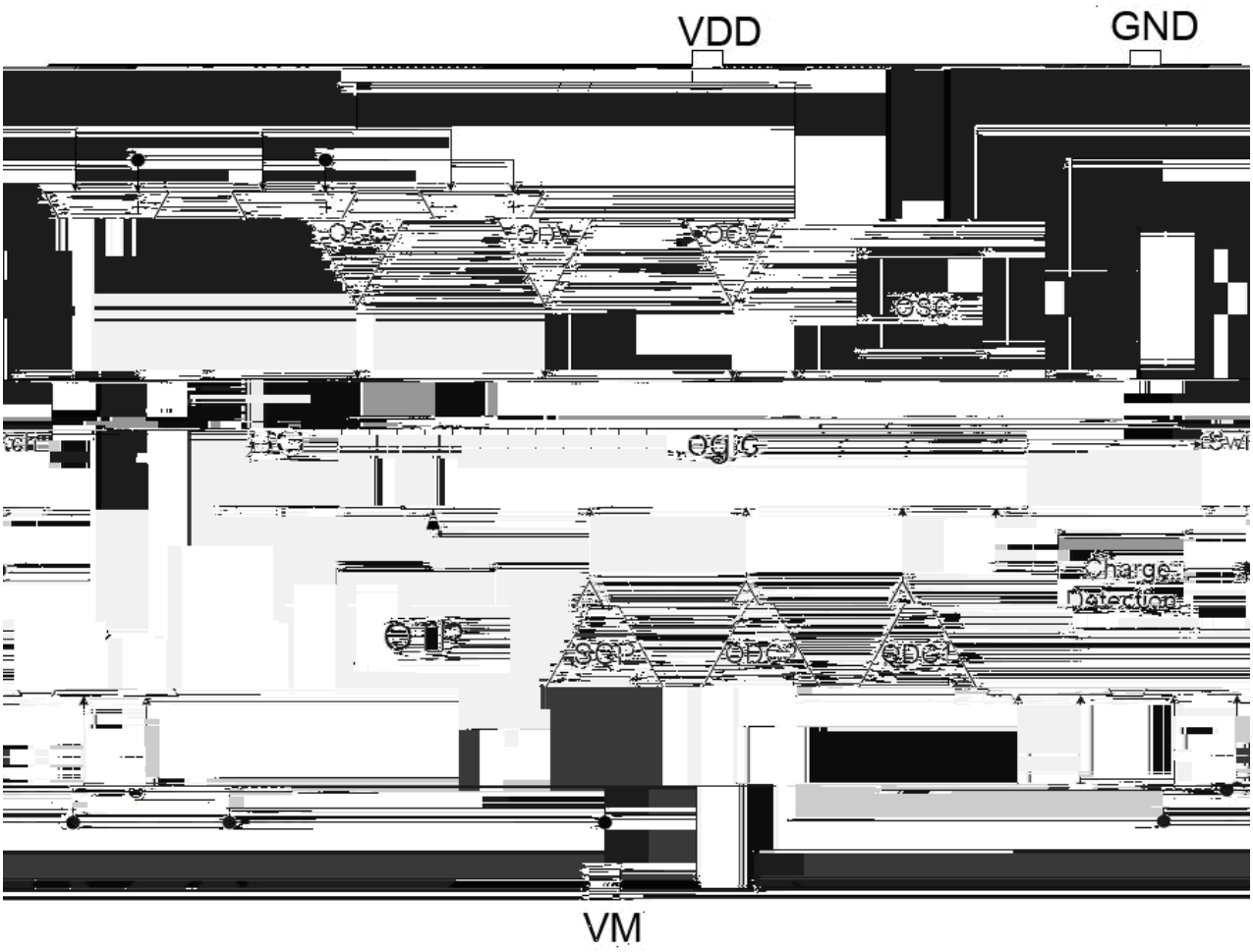
C	2018-4				
D	2019-1-12	1			
E	2020-1-3		SX Rdson 50		
F	2021-4-13	2	3230		

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

/

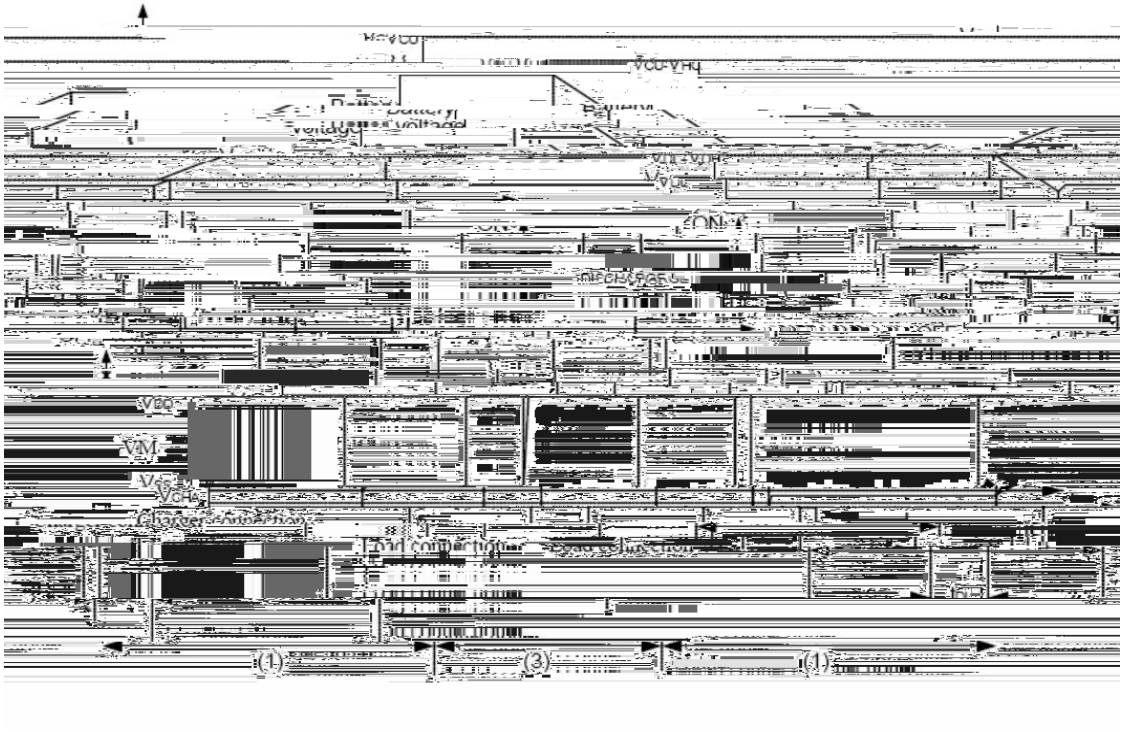
VDL ,

TDL BRCL3130MC

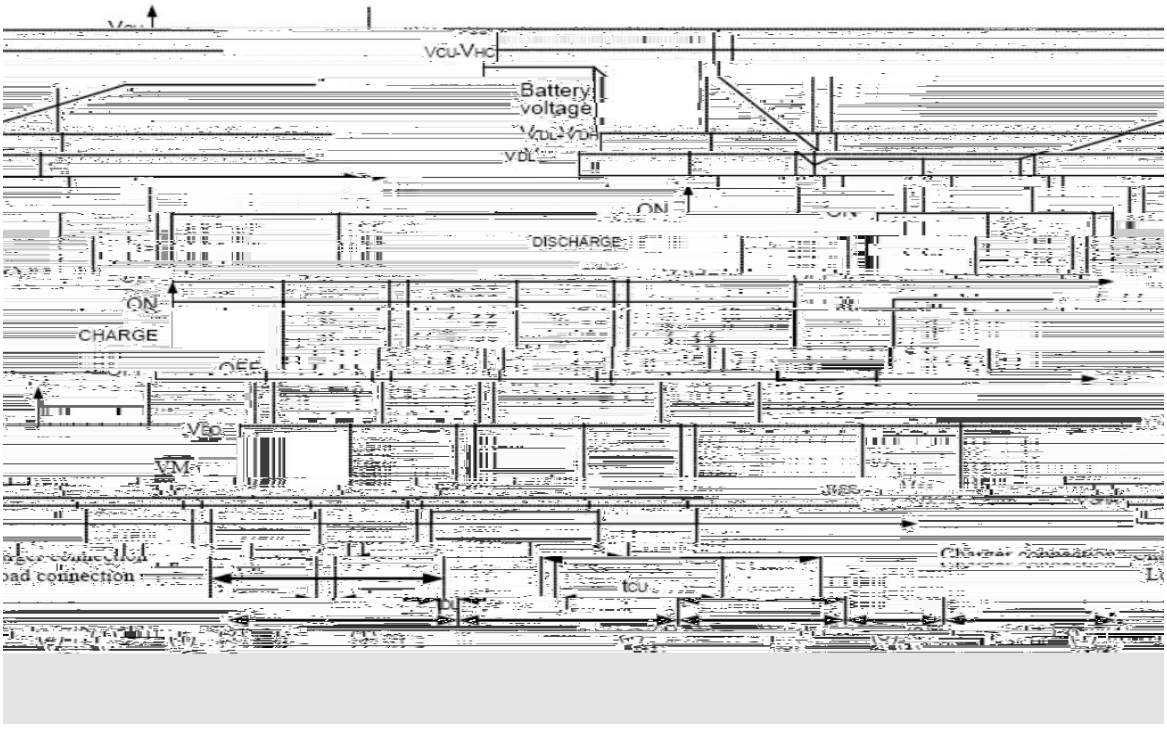
Rev. F Apr.-2021

/

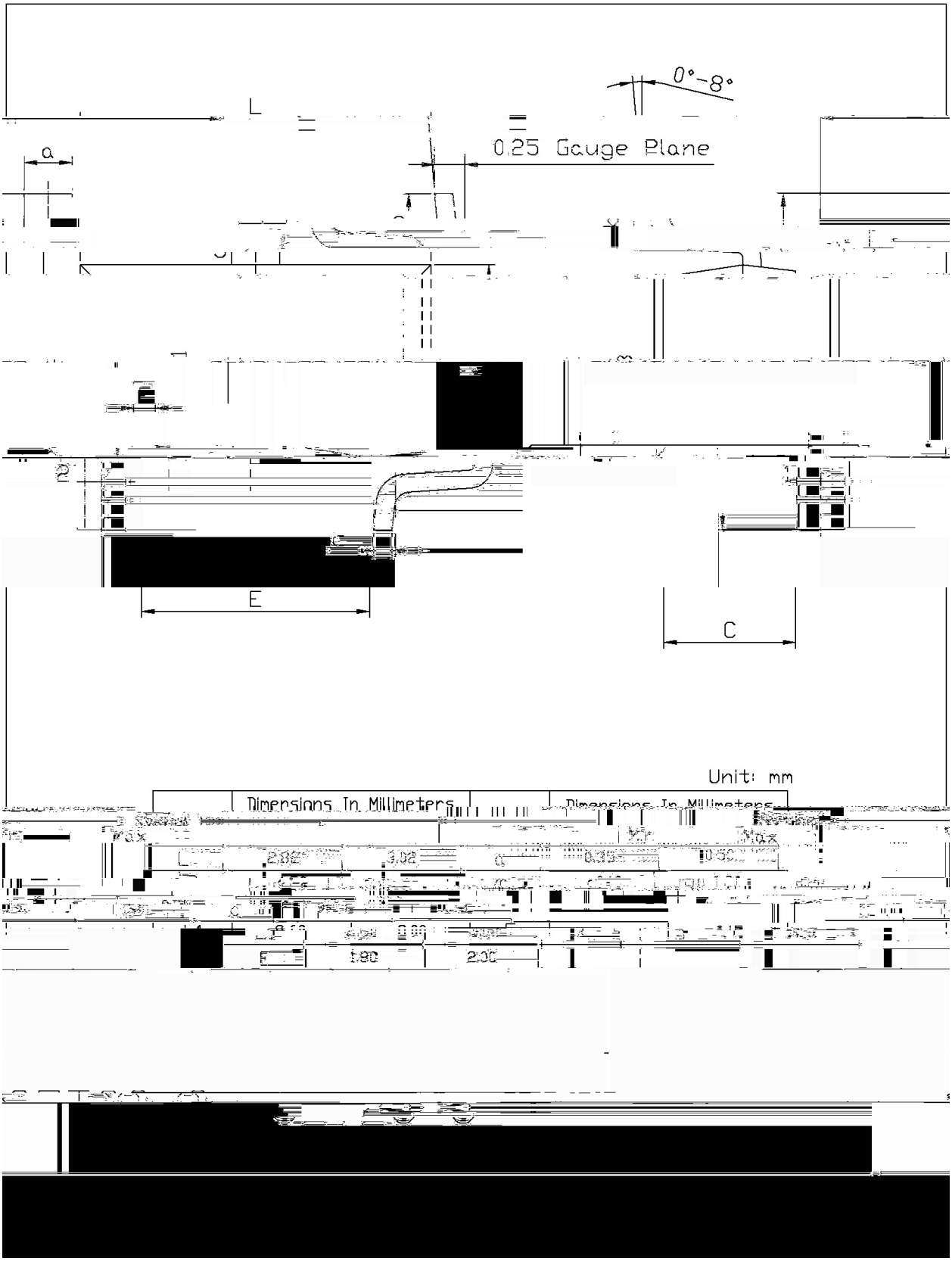
/



/

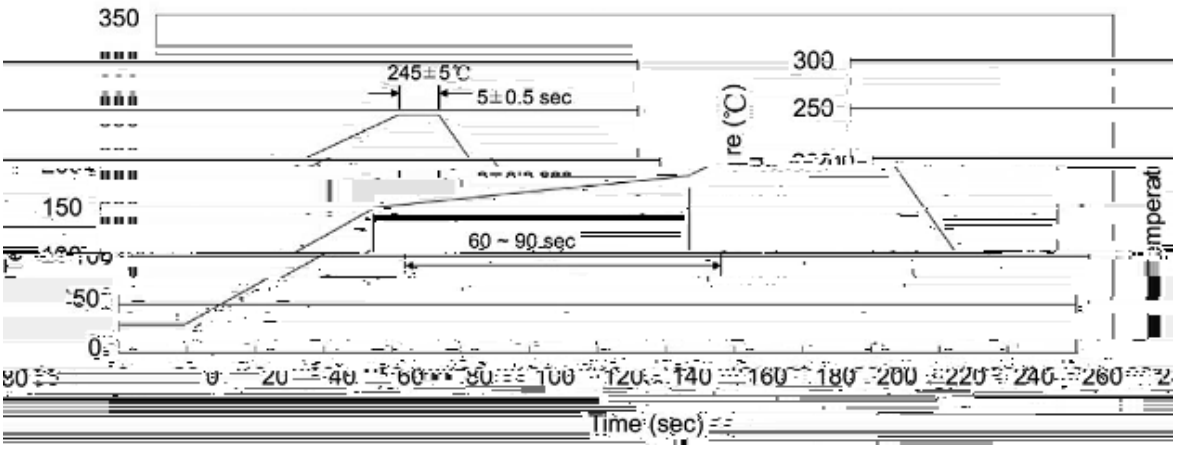


Notes: (1) Normal condition (2) Overcharge voltage condition (3) Overdischarge voltage condition (4) Overcurrent condition


0°-8°
L
0.25 Gauge Plane
a
E
C
Unit: mm
Dimensions In Millimeters
Dimensions In Millimeters

w

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

		3
	Units/Reel	