

BRCL4079ME-4.2		/			
		BRCL4079ME-4.2		5V	USB
MOSFET					
		4.2V			
		1/10	BRCL4079ME-4.2		
BRCL4079ME-4.2		SOT23-5			
-40 C		+85 C			
◆	36V	6.1V			



PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
Input Voltage Range	V _{CC}		4.5	5	36	V
Quiescent Supply Current	I _Q	Charge Mode R _{PROG} =2.0k		240	360	μA
		Standby Mode (Charge Terminated)		220	300	μA
		Shutdown Mode (R _{PROG} Not Connected, V _{CC} < V _{BAT} , or V _{CC} < V _{UV})		220	300	μA
		OVP state		120	250	μA
Regulated Output (Float)Voltage	V _{FLOAT}	0.85, R _{PROG} = 2.0k	4.158	4.200	4.242	V
BAT Pin Current	I _{BAT}	R _{PROG} = 2.0k, Current Mode	427.5	475	522.5	mA
		Standby Mode, V _{BAT} = 4.2V	0	-2.5	-6	μA
		Shutdown Mode (R _{PROG} Not Connected)		±1	±2	μA
		Sleep Mode, V _{CC} = 0V		-1	-2	μA
Trickle Charge Current	I _{TRIKL}	V _{BAT} < V _{TRIKL} , R _{PROG} = 2.0K	35	47.5	60	mA
Trickle Charge Threshold Voltage	V _{TRIKL}	R _{PROG} = 2.0k, V _{BAT} Rising	2.3	2.5	2.7	V
Trickle Charge Hysteresis Voltage	V _{TRHYS}	R _{PROG} = 2.0k	120	160	200	mV
VCC Undervoltage Lockout Threshold	V _{UV}	From V _{CC} Low to High	3.5	3.7	3.9	V
VCC Undervoltage Lockout Hysteresis	V _{UVHYS}	From V _{CC} High to Low	100	200	300	mV
VCC-VBAT Lockout Threshold Voltage	V _{ASD}	V _{CC} from Low to High	100	125	150	mV
		V _{CC} from High to Low	30	65	100	mV
C/10 Termination Current Threshold	I _{TERM}	R _{PROG} = 2.0k	35	47.5	60	mA
PROG Pin Voltage	V _{PROG}	R _{PROG} = 2.0k, Current Mode	0.9	1.0	1.1	V
CHRG Pin Output Low Voltage	V _{CHRG}	I _{CHRG} = 5mA		0.3	0.6	V

Recharge Battery Threshold Tc.....467 T-0019 Tc0.2125 Tc0 Tw(Vo)5<00ade

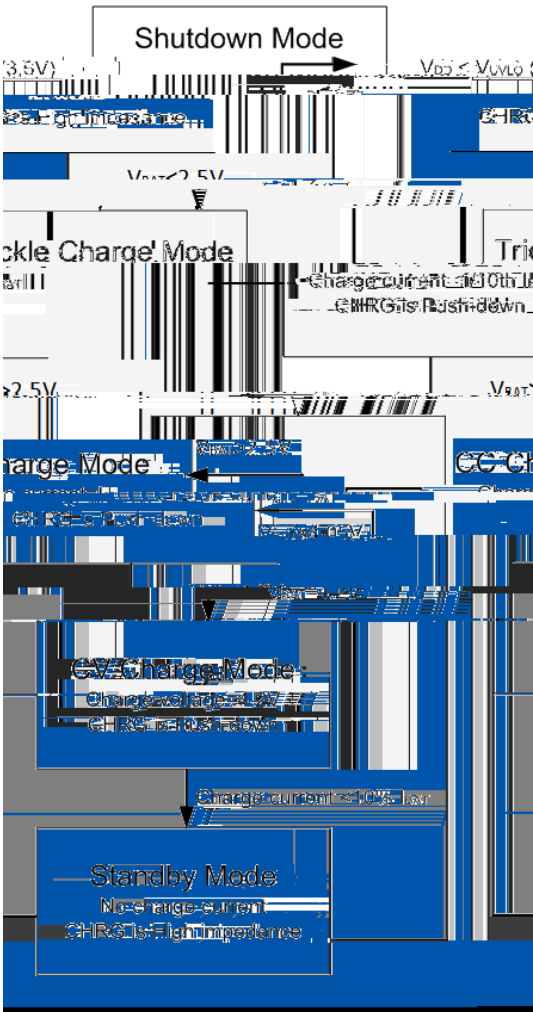
/ Function description

◆	BRCL4079ME-4.2	/	PCB
	600mA	1% BRCL4079ME-4.2	P
	MOSFET		
	BRCL4079ME-4.2	USB	
◆	VCC	UVLO	1% PROG
		BAT	2.5V
BRCL4079ME-4.2	1/10		
BAT	2.5V		BAT
	4.2V	BRCL4079ME-4.2	
	1/10		
◆	PROG	PROG	950
		$R_{PROG}=950/I_{CHG}$	$I_{CHG}=950/R_{PROG}$
	PROG	BAT	
		$I_{BAT}=(V_{PROG}\times 950)/R_{PROG}$	

/ Function description



		1/10	
PROG	PROG	100mV	tTERM
BRCL4079ME-4.2			55 A
C/10			



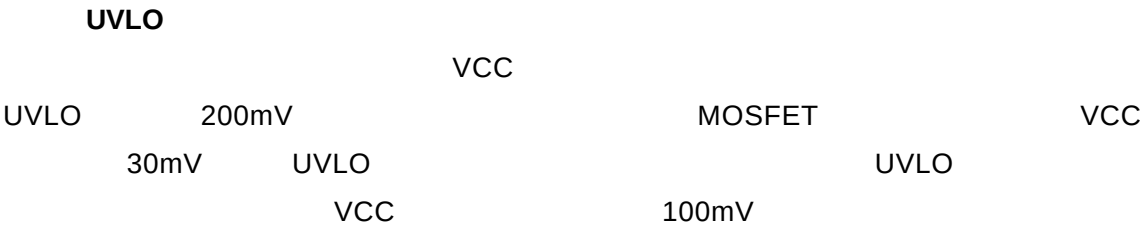


	LED
UVLO	
BAT 10 F	LED T=1-4s



145 C

BRCL4079ME-4.2
BRCL4079ME-4.2



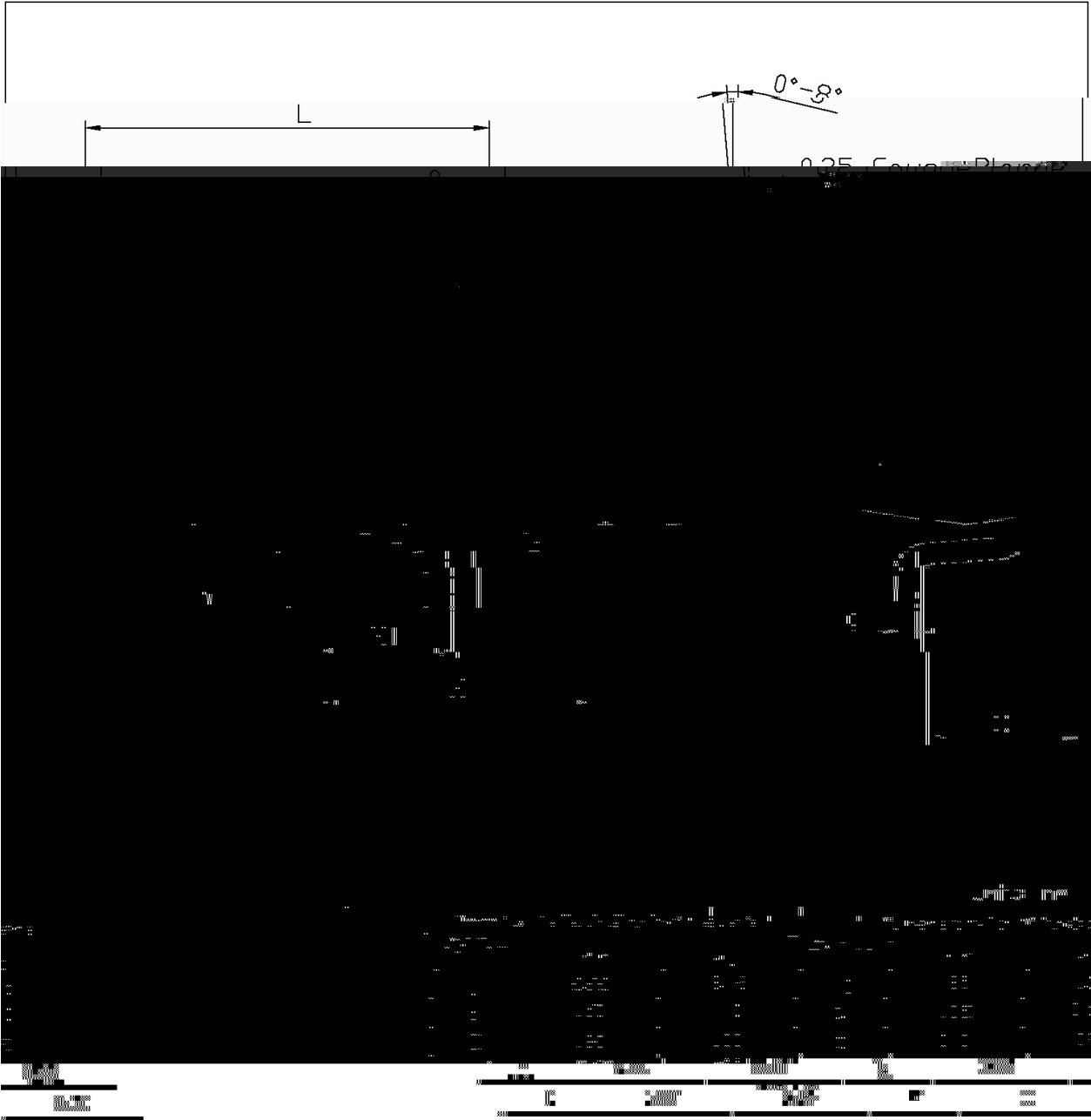
BAT BRCL4079ME-4.2 1.8ms t_{RECHARGE}

4.05V 80% 90%



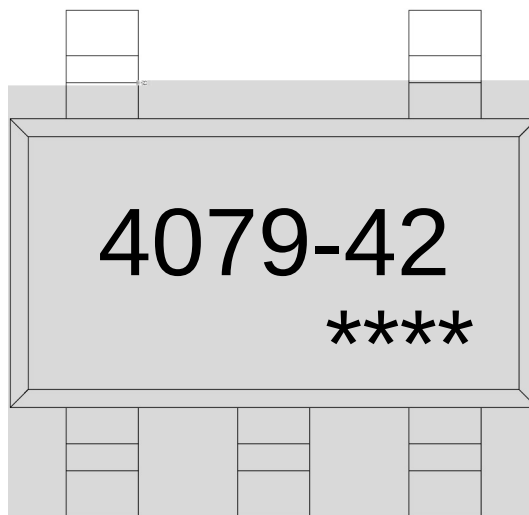
		PROG			PROG
				20k	
		PROG			100kHz
PROG		CPROG		RPROG	

/ Package Dimensions

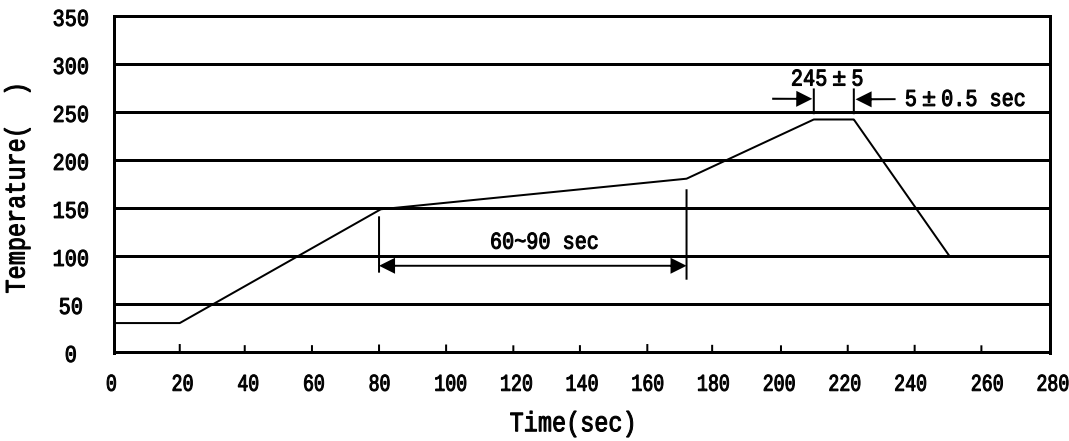


3-23-2

/ Marking Instructions



() / 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

/sec.

3. Cooling Speed: 2~10 °C /sec.

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOT23-5/6	3,000	10	30,000	4	120,000	7 × 8	210×205×205	445×435×230

/ Notices

All information provided in this document is subject to legal disclaimers.