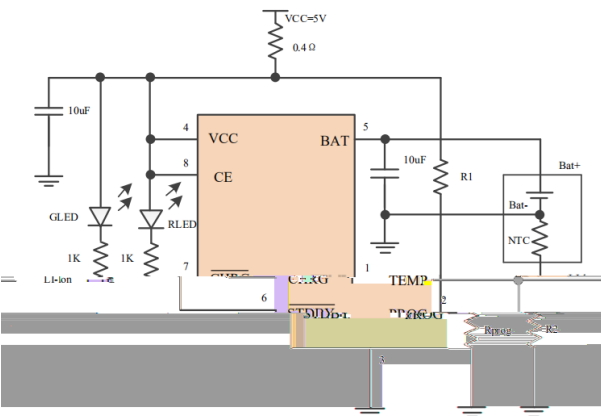


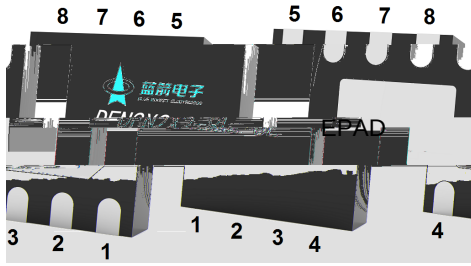
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• Pinning



PIN Num.	Symbol	Function
1	TEMP	Temperature measurement pin. It is connected to the internal temperature sensor.
2	PROG	Program pin. It is used to program the device.
3	-4*	Not connected.
4	VCC	Power supply pin. It is connected to the positive power supply.
5	BAT	Battery pin. It is connected to the battery.
6	9:*(?)	Pin 6 is connected to the internal circuit.
7	).8-	Pin 7 is connected to the internal circuit.
8	CE	Chip Enable pin. It is used to enable the device.
9	EPAD	Exposed Pad. It is used for heat dissipation.

• Absolute Maximum Ratings(Ta=25 °C)

PARAMETER	SYMBOL	RATINGS	UNITS
Input Supply Voltage		-0.3~10	V
TEMP, CE, PROG Pins Voltage		-0.3~V _{CC} +0.3	
BAT Pin Voltage		-0.3~8	
STDBY, CHRG Pins Voltage		-0.3~10	
STDBY, CHRG Pins Output sink current		10	mA
Operating Ambient Temperature Range	T _A	-40~85	°C
Junction Temperature	T _J	-40~150	°C
Storage Temperature	T _{stg}	-40~125	°C

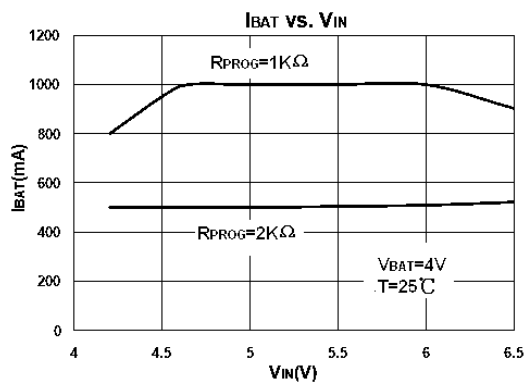
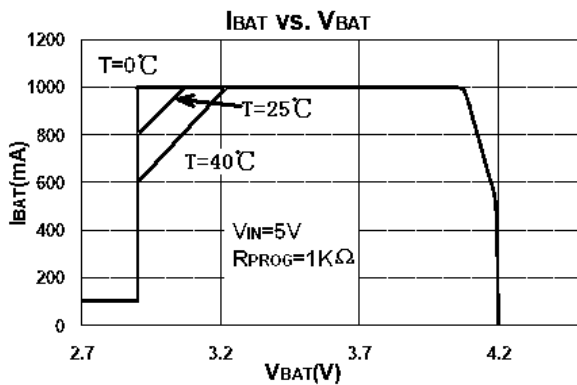
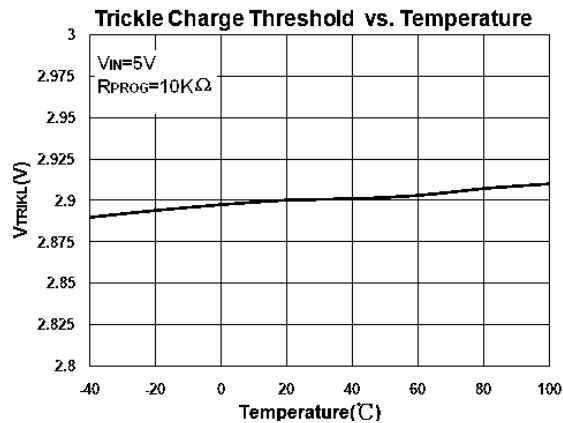
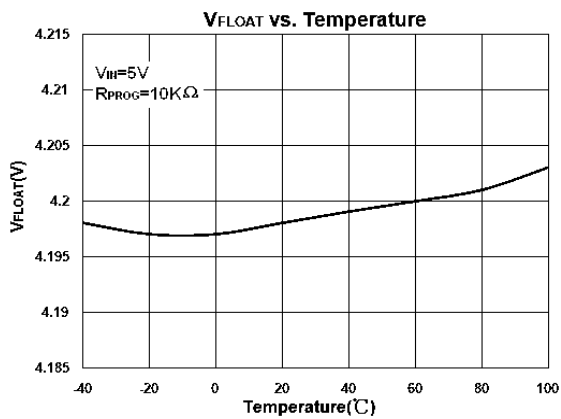
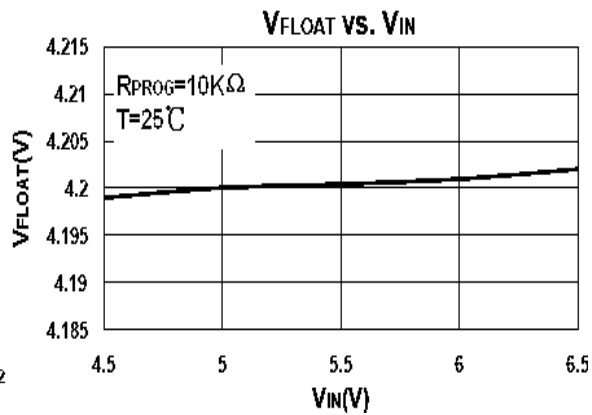
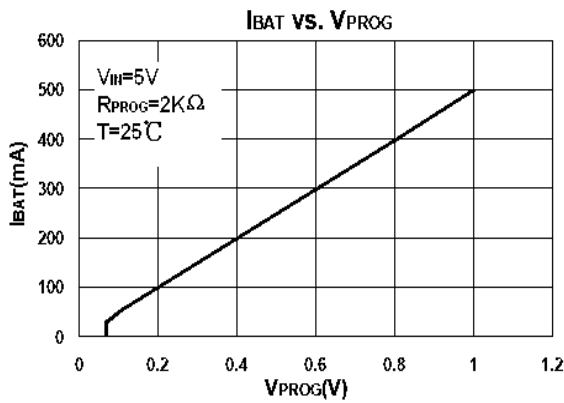
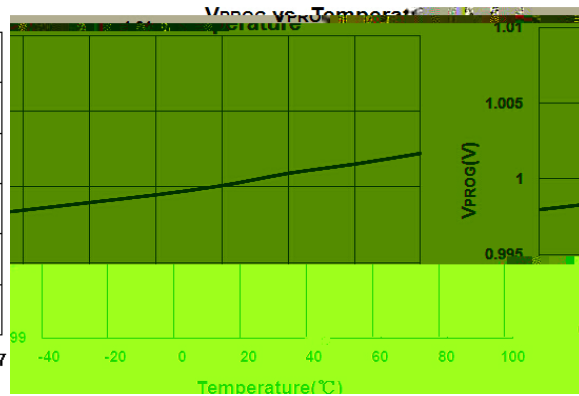
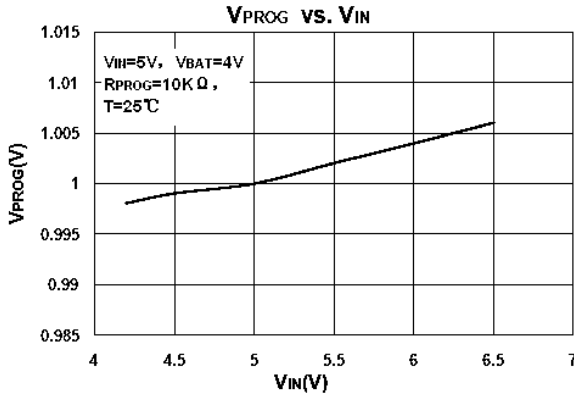
1 Absolute Maximum Ratings(Ta=25 °C)

PARAMETER	SYMBOL	RATINGS	UNITS
Lead Temperature (Soldering, 10s)	T _{solder}	260	°C
ESD	HBM	2000	V
	MM	200	V

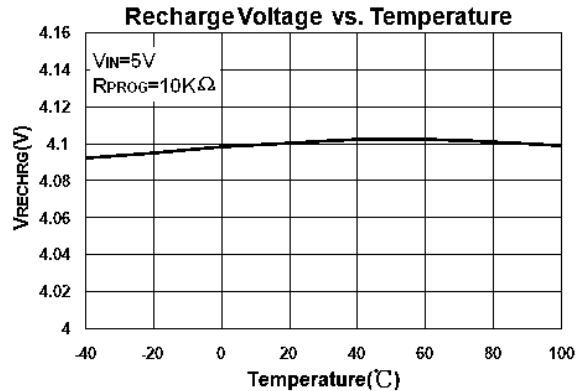
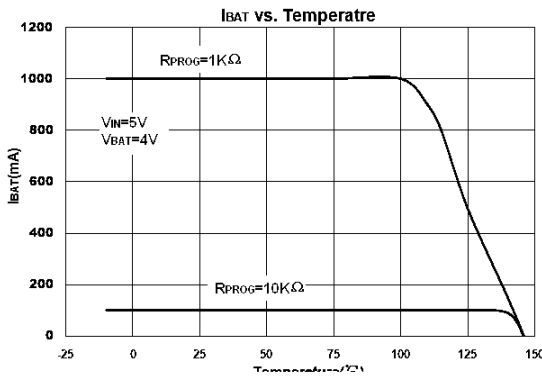
2 Electrical Characteristics(Ta=25 °C)

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
Input Supply Voltage			4.5		6.5	V
V _{CC} Under voltage Lockout Threshold	V _{UVL}	V _{CC} from Low to High		3.9		V
V _{CC} Under voltage Lockout Hysteresis	ΔV _{UVL}			150		mV
Input Supply Current	I _{CC}	Charge Mode, R _{PROG} =10K		150	500	μA
		Standby Mode (Charge Terminated)		50	100	
		Shutdown Mode: R _{PROG} Not Connected, V _{CC} <V _{BAT} , or V _{CC} <V _{UVL}		50	100	
CE "High" Level Voltage	V _{CEH}		1.5		V _{CC}	V
CE "Low" Level Voltage	V _{CEL}				0.4	V
Trickle Charge Threshold	V _{TRIKL}	R _{PROG} =10K, V _{BAT} Rising		2.9		V
Trickle Charge Hysteresis	ΔV _{TRIKL}	R _{PROG} =10K		100		mV
Trickle Charge Current	I _{TRIKL}	R _{PROG} =1K	90	100	110	mA
BAT Pin Current	I _{BAT}	R _{PROG} =1K, Current Mode(V _{BAT} =4.0V)	900	1000	1100	mA
		R _{PROG} =2K, Current Mode(V _{BAT} =4.0V)	450	500	550	
		Standby Mode, V _{BAT} =V _{FLOAT}	0	-2.5	-6.0	μA
		Shutdown Mode (R _{PROG} Not Connected)		≤ 1	≤ 2	
		Sleep Mode, V _{CC} =0V			-2	
PROG Pin Voltage	V _{PROG}	R _{PROG} =1K, Current Mode	0.9	1.0	1.1	V
PROG Pin Pull-Up Current	I _{PROG}			3		μA
Regulated Output (Float) Voltage	V _{FLOAT}	R _{PROG} =10K	4.158	4.200	4.242	V
C/10 Termination Current Threshold	I _{TERM}	R _{PROG} =1K		0.1		mA/mA

Electrical Characteristic Curve

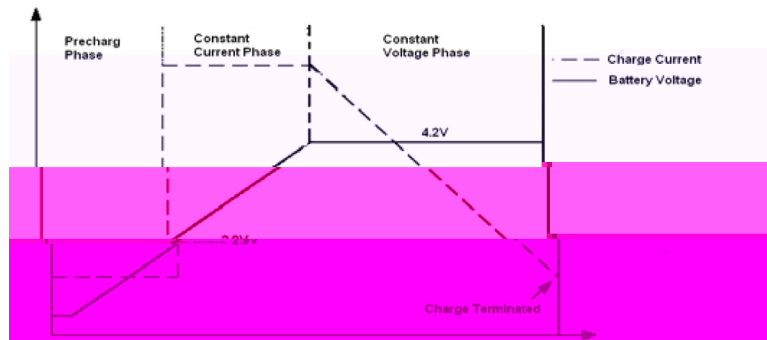


Electrical Characteristic Curve



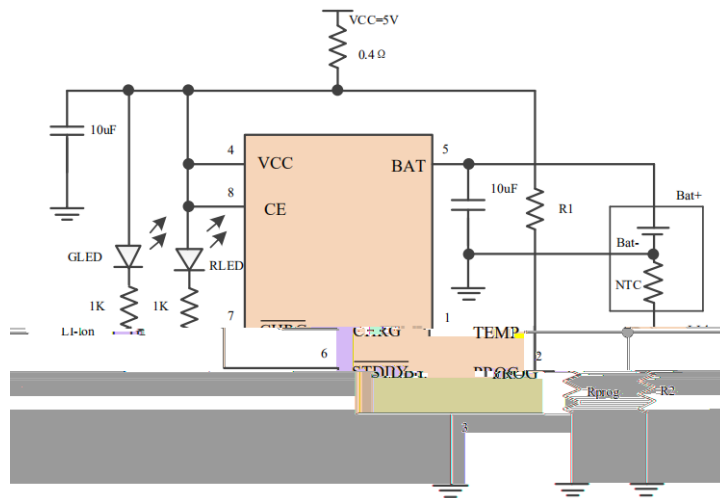
$V \in \hat{A}$ / Description of the Principle

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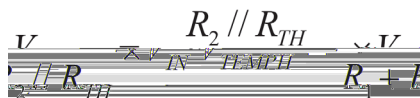


V € < Â / Description of the Principle

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V € < Â / Description of the Principle

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$$R1 = \frac{R_{TL} R_{TH} (K_2 - K_1)}{(R_{TL} - R_{TH}) K_1 K_2}$$

$$R2 = \frac{R_{TL} R_{TH} (K_2 - K_1)}{(R_{TH} - R_{TL}) K_1 K_2}$$

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$$R1 = \frac{R_{TL} R_{TH} (K_2 - K_1)}{(R_{TH} - R_{TL}) K_1 K_2}$$

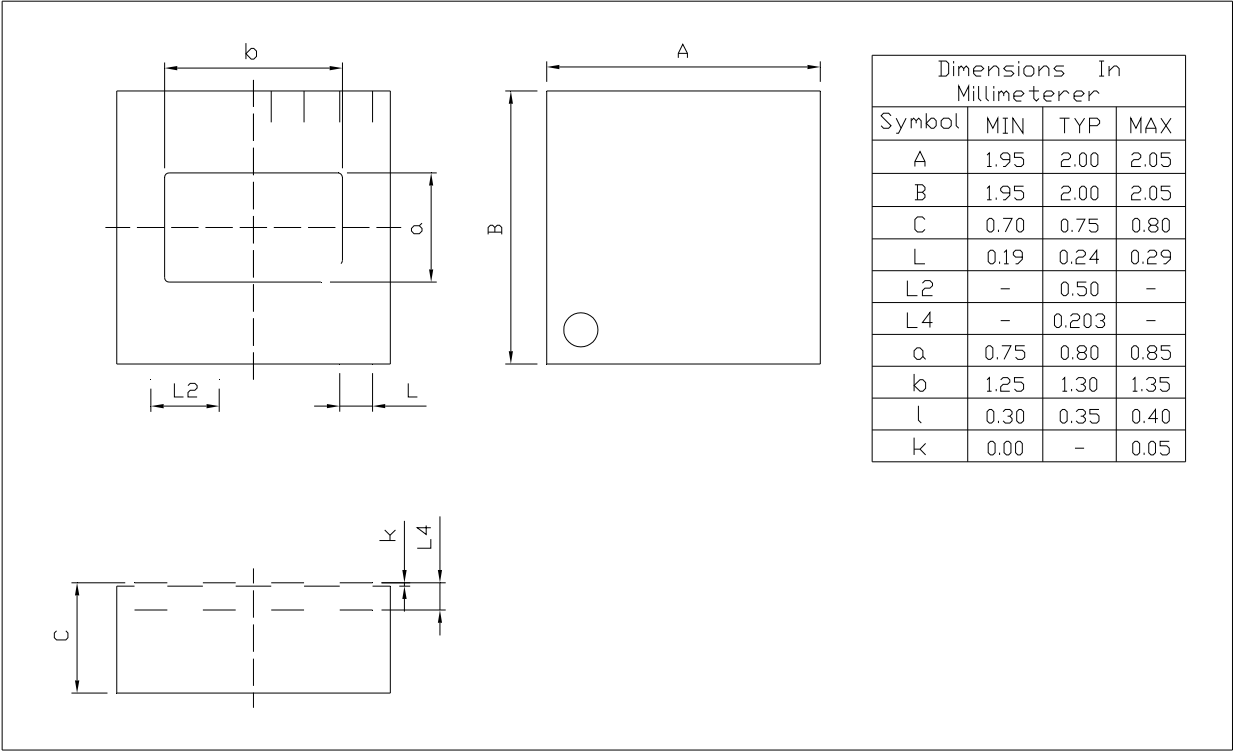
$$R2 = \frac{R_{TL} R_{TH} (K_2 - K_1)}{(R_{TH} - R_{TL}) K_1 K_2}$$

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Ø □ =) ⌀ / Package Dimensions

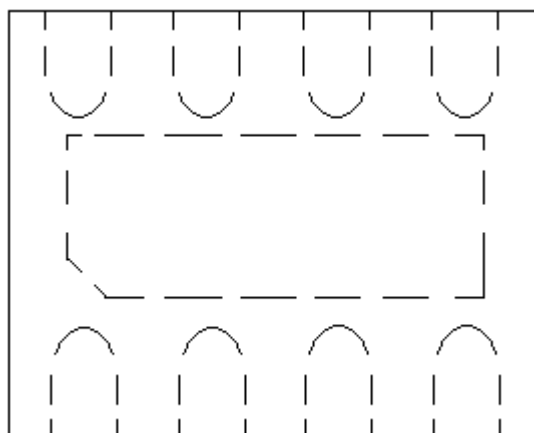
DFN2 x2-8L-0.75

Unit:mm



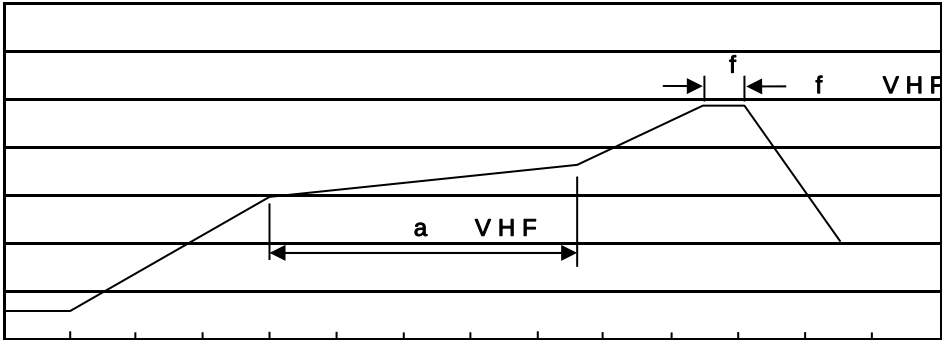
Rev.00 202012

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7HPSHUDWXXUH



7LPH VHF

ačy

- 10•Ä½“† 150½180 - kž• 60½90sec;
- 20•Q>“† 245 r5 - kž•4 Ò 5 r0.5sec;
- 30•D NòìÒ0,† 2½10 - /sec.

Note:

- 1.Preheating:150~180 - , Time:60~90sec.
- 2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.
- 3. Cooling Speed: 2~10 - /sec.

ÂD /Că p ~ »] / Resistance to Soldering Heat Test Conditions

“†y 260 r5 - ž•y 10 r1 sec. Temp.:260 r5 - Time:10 r1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û~E	Units ;>û!H					Dimension ;>û p . (unit Åmm³)		
	Units/Reel / --	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Boxç
DFN2×2-8L	4,000	10	40,000	4	160,000	7 s ×8	210×205×205	445×230×435

„Đy f / Notices