

800mA 1 Cell Li-ion and Li-Po Battery Linear Charger IC with Constant-Current/Constant-Voltage

■ GENERAL DESCRIPTION

The XC6802 series is a constant-current/constant-voltage linear charger IC for single cell Lithium-ion and Lithium polymer batteries. The XC6802 includes a reference voltage source, battery voltage monitor, driver transistor, constant-current/constant-voltage charge circuit, overheat protection circuit and phase compensation circuit. The battery charge termination voltage is internally set to $4.2V \pm 0.7\%$ and the trickle charge voltage and accuracy is $2.9V \pm 3\%$. In trickle charge mode, a safe Lithium-ion and Lithium polymer battery charge is possible because approximately only 1/10 of the full charge current is supplied to the battery.

With an external R_{SEN} resistor, the charge current can be set freely up to 800mA (MAX.), therefore, the series is ideal for various battery charge applications. The series' charge status output pin, /CHG pin, is capable of checking the IC's charging state while connecting with an external LED.

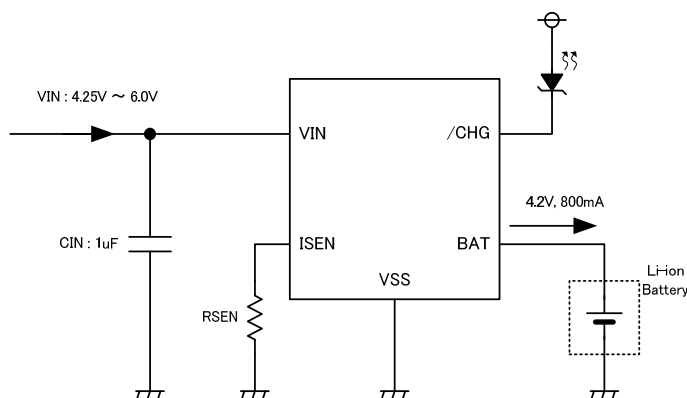
■ APPLICATIONS

- Charging docks, charging cradles
- MP3 players, portable audio players
- Cellular phones, PDAs
- Bluetooth headsets

■ FEATURES

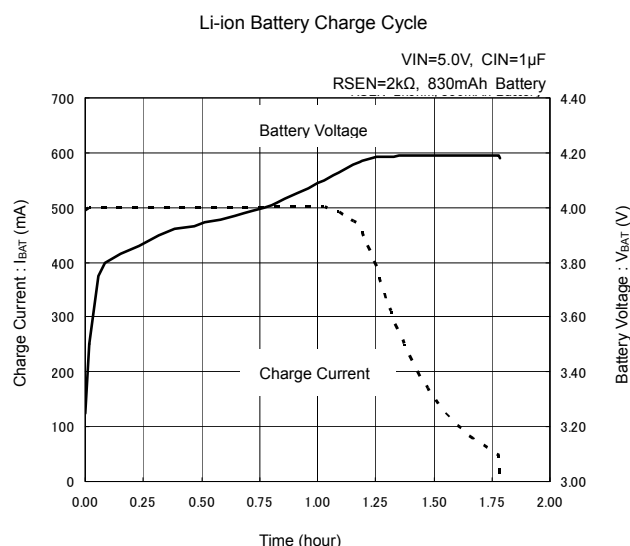
Operating Voltage Range	: 4.25V ~ 6.0V
Charge Current	: Externally set up to 800mA (MAX.)
Charge Termination Voltage	: $4.2V \pm 0.7\%$
Trickle Charge Voltage	: $2.9V \pm 3\%$
Supply Current (Stand-by)	: $15\mu A$ (TYP.)
Function	: Constant-current/constant-voltage Operation Thermal Shutdown Automatic Recharge Charge Status Output Pin Soft-start Function (Inrush Limit Current)
Operating Ambient Temperature	: $-40^{\circ}C \sim +85^{\circ}C$
Packages	: SOT-89-5, SOT-25, USP-6C, USP-6EL
Environmentally Friendly	: EU RoHS Compliant, Pb Free

■ TYPICAL APPLICATION CIRCUIT

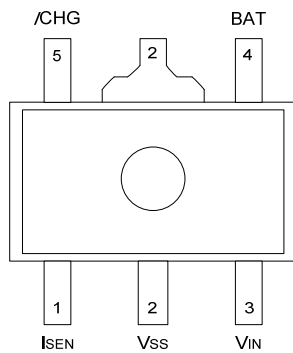


■ TYPICAL PERFORMANCE CHARACTERISTICS

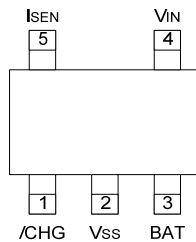
● Battery Charge Cycle



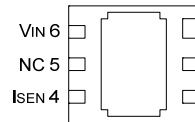
PIN CONFIGURATION



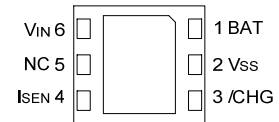
SOT-89-5
(TOP VIEW)



SOT-25
(TOP VIEW)



USP-6C
(BOTTOM VIEW)



USP-6EL
(BOTTOM VIEW)

* The dissipation pad for the USP-6C / USP-6EL package should be solder-plated in recommended mount pattern and metal masking so as to enhance mounting strength and heat release. If the pad needs to be connected to other pins, it should be connected to the V_{SS} (No. 2) pin.

PIN ASSIGNMENT

PIN NUMBER				PIN NAME	FUNCTIONS
SOT-25	SOT-89-5	USP-6C	USP-6EL		
1	5	3	3	/CHG	Charge Status Output Pin
2	2	2	2	V_{SS}	Ground
3	4	1	1	BAT	Charge Current Output Pin
4	3	6	6	V_{IN}	Input Voltage Pin
5	1	4	4	I_{SEN}	Charge Current Setup Pin
-	-	5	5	NC	No Connection

FUNCTIONS

XC6802A42X

PIN NAME	CONDITIONS	IC OPERATION
I_{SEN}	H Level ($1.4V \leq V_{SEN} \leq V_{IN}$) or Open	OFF (Shutdown Mode)
	Pull-down by external components	ON, Charge Current $I_{BAT}=1000 / R_{SEN}^*$

* For SOT-25, SOT-89-5, and USP-6C, charge current should be set to become $I_{BAT} \leq 800mA$.

For USP-6EL, charge current should be set to become $I_{BAT} \leq 500mA$.

PRODUCT CLASSIFICATION

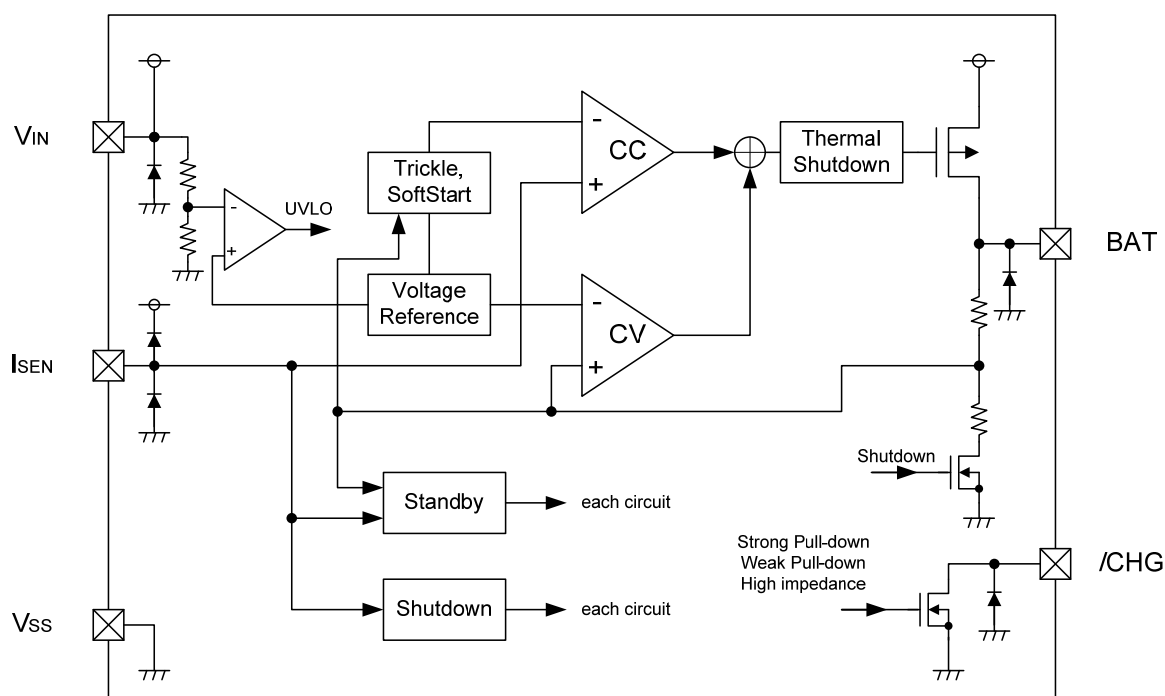
Ordering Information

XC6802A42X①②-③

DESIGNATOR	ITEM	SYMBOL	DESCRIPTION
①②-③ (*1)	Packages (Order Unit)	PR	SOT-89-5 (1,000pcs/Reel)
		PR-G	SOT-89-5 (1,000pcs/Reel)
		MR	SOT-25 (3,000pcs/Reel)
		MR-G	SOT-25 (3,000pcs/Reel)
		ER	USP-6C (3,000pcs/Reel)
		ER-G	USP-6C (3,000pcs/Reel)
		4R-G	USP-6EL (3,000pcs/Reel)

(*1) The "-G" suffix denotes Halogen and Antimony free as well as being fully EU RoHS compliant.

■ BLOCK DIAGRAM



* Diodes inside the circuits are ESD protection diodes and parasitic diodes.

■ ABSOLUTE MAXIMUM RATINGS

Ta=25°C

PARAMETER		SYMBOL	RATINGS	UNIT
VIN Pin Voltage		VIN	-0.3 ~ + 6.5	V
ISEN Pin Voltage		VSEN	-0.3 ~ VIN + 0.3 or +6.5 (*2)	V
BAT Pin Voltage		VBAT	-0.3 ~ + 6.5	V
/CHG Pin Voltage		V/CHG	-0.3 ~ + 6.5	V
BAT Pin Current (*1)	SOT-89-5	IBAT	900	mA
	SOT-25			
	USP-6C		550	
	USP-6EL			
Power Dissipation	SOT-89-5	Pd	500	mW
			1300 (PCB mounted) (*3)	
	SOT-25		250	
			600 (PCB mounted) (*3)	
	USP-6C		120	
			1000 (PCB mounted) (*3)	
	USP-6EL		120	
			1000 (PCB mounted) (*3)	
Operating Ambient Temperature		Topr	- 40 ~ + 85	°C
Storage Temperature		Tstg	- 55 ~ + 125	°C

All voltages are described based on the VSS pin.

^{(*)1} Please use within the range of $I_{BAT} \leq Pd / (V_{IN} - V_{BAT})$.

^{(*)2} The maximum rating corresponds to the lowest value between VIN+0.3 or +6.5.

^{(*)3} This is a reference data taken by using the test board. Please refer to page 17 to 20 for details.

ELECTRICAL CHARACTERISTICS

XC6802A42x

Ta=25°C

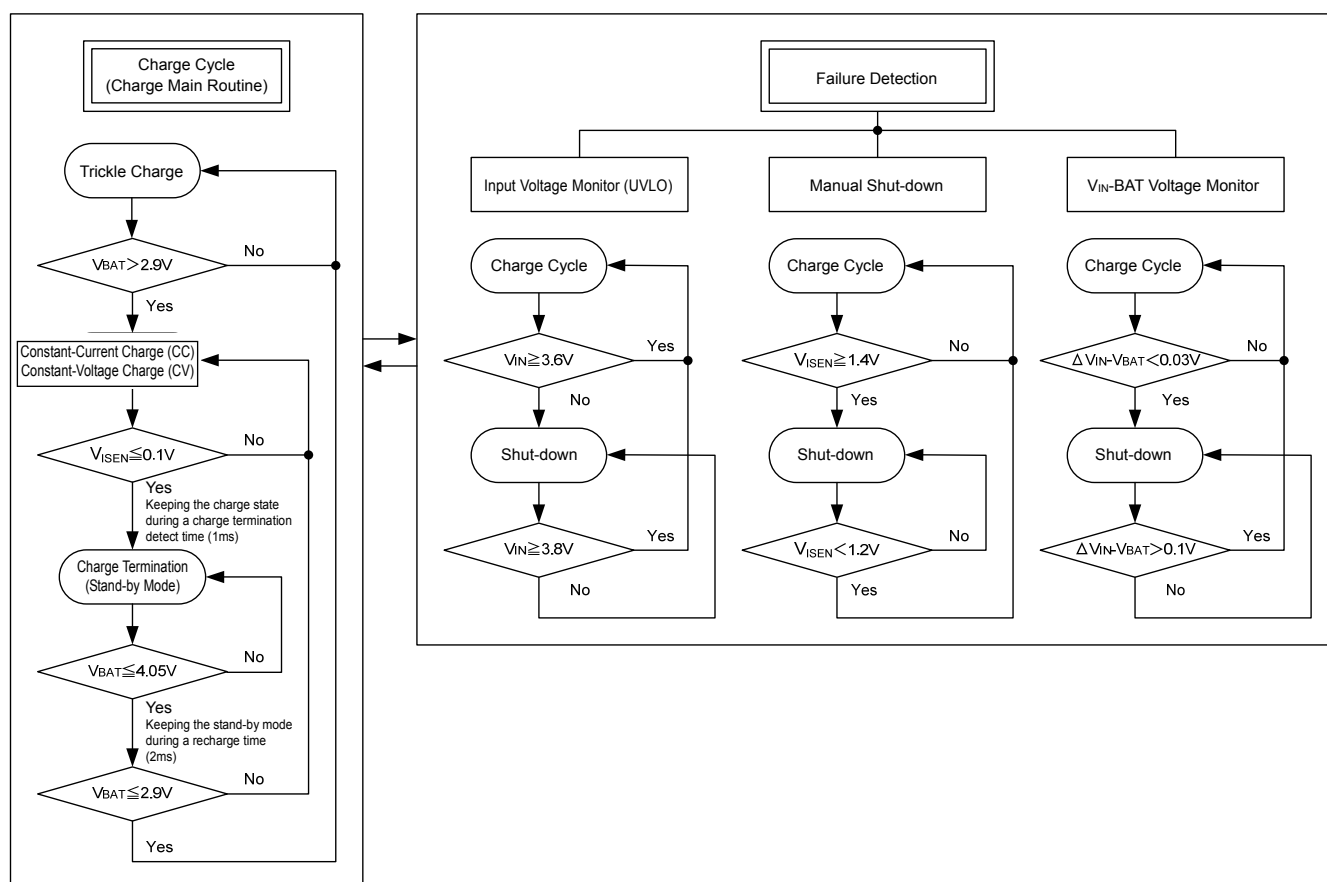
PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT	CIRCUIT
Input Voltage	V_{IN}		4.25	-	6.0	V	-
Supply Current	I_{SS}	Charge mode, $R_{SEN}=10k\Omega$	-	15	35	μA	③
Stand-by Current	I_{STBY}	Stand-by mode	-	15	35	μA	③
Shut-down Current	I_{SHUT}	Shut-down mode ($R_{SEN}=NC$, $V_{IN}<V_{BAT}$ or $V_{IN}<V_{UVLO}$)	-	10	23	μA	③
Float Voltage 1	V_{FLOAT1}	Ta=25°C, $I_{BAT}=40mA$	$\times 0.993$	4.2	$\times 1.007$	V	②
Float Voltage 2 (*)	V_{FLOAT2}	0°C ≤ Ta ≤ 50°C, $I_{BAT}=40mA$	$\times 0.99$	4.2	$\times 1.01$	V	-
Maximum Battery Current (*)	I_{BATMAX}	SOT-25 / SOT-89-5 / USP-6C	-	-	800	mA	-
		USP-6EL	-	-	500		
Battery Current 1	I_{BAT1}	$R_{SEN}=10k\Omega$, CC mode	93	100	107	mA	③
Battery Current 2	I_{BAT2}	$R_{SEN}=2k\Omega$, CC mode	465	500	523	mA	③
Battery Current 3	I_{BAT3}	Stand-by mode, $V_{BAT}=4.2V$	-	-	2	μA	③
Battery Current 4	I_{BAT4}	Shut-down mode ($R_{SEN}=NC$)	-	-	1	μA	⑤
Battery Current 5	I_{BAT5}	Sleep mode, $V_{IN}=0V$	-	-	1	μA	③
Trickle Charge Current 1	I_{TRIKL1}	$V_{BAT}<V_{TRIKL}$, $R_{SEN}=10k\Omega$	6	10	14	mA	③
Trickle Charge Current 2	I_{TRIKL2}	$V_{BAT}<V_{TRIKL}$, $R_{SEN}=2k\Omega$	30	50	70	mA	③
Trickle Voltage	V_{TRIKL}	$R_{SEN}=10k\Omega$, V_{BAT} Rising	2.913	2.9	2.987	V	③
Trickle Voltage Hysteresis Width	V_{TRIKL_HYS}	-	58	90	116	mV	③
UVLO Voltage	V_{UVLO}	V_{IN} : L → H	3.686	3.8	3.914	V	③
UVLO Hysteresis Width	V_{UVLO_HYS}	-	150	190	280	mV	③
Manual Shut-down Voltage	V_{SD}	I_{SEN} : L → H	1.4	-	-	V	①
Manual Shut-down Voltage Hysteresis Width	V_{SD_HYS}	-	-	100	-	mV	①
$V_{IN}-V_{BAT}$ Shut-down Release Voltage	V_{ASD}	V_{IN} : L → H	70	100	140	mV	③
$V_{IN}-V_{BAT}$ Shut-down Voltage Hysteresis Width	V_{ASD_HYS}	-	-	70	-	mV	③
C/10 Charge Termination Current Threshold 1	I_{TERM1}	$R_{SEN}=10k\Omega$	0.07	0.10	0.13	mA/mA	②
C/10 Charge Termination Current Threshold 2	I_{TERM2}	$R_{SEN}=2k\Omega$	0.07	0.10	0.13	mA/mA	②
I_{SEN} Pin Voltage	V_{ISEN}	$R_{SEN}=10k\Omega$, CC mode	-	1.0	-	V	③
/CHG Pin Weak Pull-down Current	I_{CHG1}	$V_{BAT}=4.3$, $V_{CHG}=5V$	8	20	50	μA	③
/CHG Pin Strong Pull-down Current	I_{CHG2}	$V_{BAT}=4.0V$, $V_{CHG}=1V$	4	10	20	mA	③
/CHG Pin Output Low Voltage	V_{CHG}	$I_{CHG}=5mA$	-	0.35	0.7	V	④
Recharge Battery Threshold Voltage	ΔV_{RECHRG}	$V_{FLOAT1}-V_{RECHRG}$	100	150	200	mV	③
ON Resistance	R_{ON}	$I_{BAT}=100mA$	-	450	900	m Ω	①
Soft-start Time	t_{SS}		100	150	200	μs	⑥
Recharge Battery Time	t_{RECHRG}		0.4	2	4	ms	②
Battery Termination Detect Time	t_{TERM}	I_{BAT} falling (less than charge current /10)	0.3	1	3.5	ms	②
I_{SEN} Pin Pull-up Current	$I_{SEN_pull_up}$	-	-	1.3	-	μA	①
Thermal Shut-down Detect Temperature	T_{TSD}	Junction temperature	-	115	-	°C	-
Thermal Shut-down Release Temperature	T_{TSR}	Junction temperature	-	95	-	°C	-

* Unless otherwise stated, $V_{IN}=5.0V$.

(*) The figures under the condition of 0°C ≤ Ta ≤ 50°C are guaranteed by design calculation.

(*) The R_{SEN} resistance set: The battery current shall not be exceeded to 800mA. (SOT-25, SOT-89-5, and USP-6C)
The battery current shall not be exceeded to 500mA. (USP-6EL)

■ OPERATIONAL EXPLANATION



<Charge Cycle>

If the BAT pin voltage is less than trickle voltage (TYP. 2.9V), the charger enters trickle charge mode. In this mode, a safe battery charge is possible because approximately only 1/10 of the charge current which was set by the I_{SEN} pin, is supplied to the battery. When the BAT pin voltage rises above the trickle voltage, the charger enters constant-current mode (CC mode) and the battery is charged by the programmed charge current. When the BAT pin voltage reaches 4.2V, the charger enters constant-voltage mode (CV mode) automatically. After this, the charge current starts to drop and when it reaches a level which is 1/10 of the programmed charge current, the charge terminates.

<Setting Charge Current>

The charge current can be set by connecting a resistor between the I_{SEN} pin and the V_{SS} pin. The battery charge current, I_{BAT} , is 1000 times the current out of the I_{SEN} pin. Therefore, the charge current, I_{BAT} , is calculated by the following equations:

$$I_{BAT} = (V_{ISEN} / R_{SEN}) \times 1000 \quad (V_{ISEN} = 1.0V \text{ (TYP.): Current sense pin voltage)})$$

However $I_{BAT} \leq 800mA$ (SOT-25, SOT-89-5, and USP-6C), $I_{BAT} \leq 500mA$ (USP-6EL)

<Charge Termination>

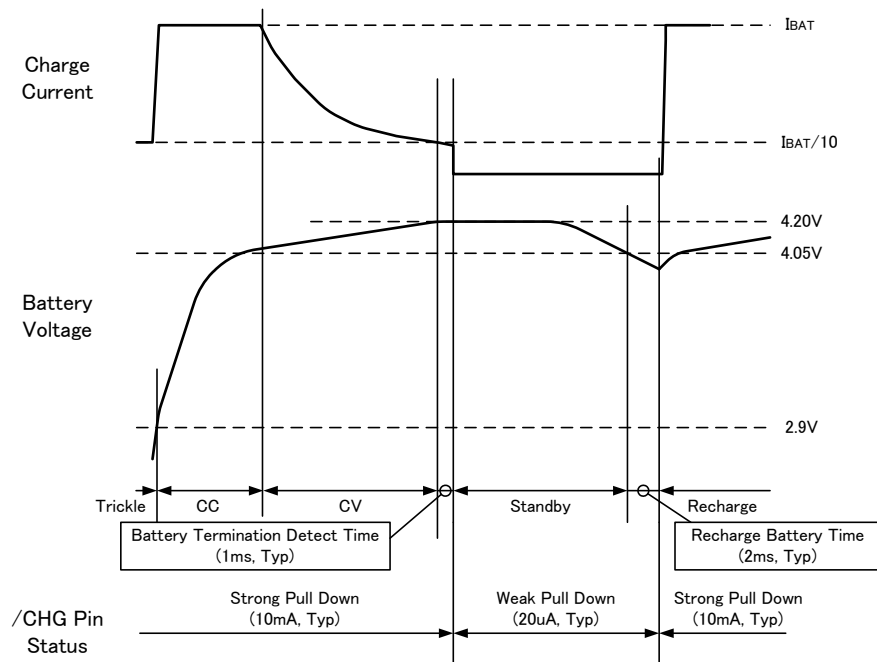
The battery charge is terminated when the charge current decreases to 1/10 of the full charging level after the battery pin voltage reaches a float voltage. An internal comparator monitors the I_{SEN} pin voltage to detect the charge termination. When the comparator monitors the I_{SEN} pin voltage is less than 100mV (charge termination detect) ^(*) for 1ms TYP. (charge termination detect time), the IC enters stand-by mode. A driver transistor turns off during the stand-by mode. In this state, a failure detection circuit and a monitoring circuit of the battery pin voltage operates.

^(*) The detect after charging completed: I_{SEN} pin voltage should be less than 100mV.

<Automatic Recharge>

In stand-by mode battery voltage falls. When the voltage level at the battery pin drops to recharge battery threshold voltage (TYP. 4.05V) or less, the charge cycle automatically re-starts after a delay of (TYP. 2ms). As such, no external activation control is needed.

■ OPERATIONAL EXPLANATION (Continued)



<Charge Condition Status>

The /CHG pin constantly monitors the charge states classified as below:

- Strong pull-down: $I_{CHG}=10\text{mA}$ (TYP.) in a charge cycle,
- Weak pull-down: $I_{CHG}=20\mu\text{A}$ (TYP.) in a stand-by mode,
- High impedance: in shutdown mode.

<Connection of Shorted BAT Pin>

Even if the BAT pin is shorted to the V_{SS} , a trickle charge mode starts to operate for protecting the IC from destruction caused by over current.

<Under-voltage Lockout (UVLO)>

The UVLO circuit keeps the charger in shut-down mode until the input voltage, V_{IN} , rises more than the UVLO voltage. Moreover, in order to protect the battery charger, the UVLO circuit keeps the charger in shut-down mode when a voltage between the input pin voltage and BAT pin voltage falls to less than 30mV (TYP.). The charge will not restart until the voltage between the input pin voltage and BAT pin voltage rises more than 100mV (TYP.). During the shut-down mode, the driver transistor turns off but a failure detection circuit operates, and supply current is reduced to 10uA (TYP.).

<Soft-start Function>

To protect against inrush current from the input to the battery, soft-start time is set in the circuit optimally (150uA, TYP.).

<Manual Shut-down>

During the charge cycle, the IC can be shifted to the shut-down mode by floating the I_{SEN} pin. For this, a drain current to the battery is reduced to less than 2uA and a shut-down current of the IC is reduced to less than 10uA (TYP.). A new charge cycle starts when reconnecting the current sense resistor.

<Opened BAT Pin>

When the BAT pin is left open, the IC needs to be shut-down once after monitoring the CHG pin by a microprocessor etc and keeping the I_{SEN} pin in H level.

<Backflow Prevention Between the BAT Pin and the V_{IN} Pin>

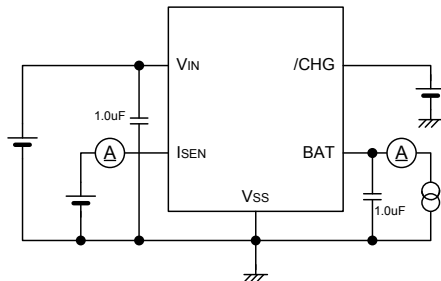
A backflow prevention circuit protects against current flowing from the BAT pin to the V_{IN} pin even the BAT pin voltage is higher than the V_{IN} pin voltage.

■NOTES ON USE

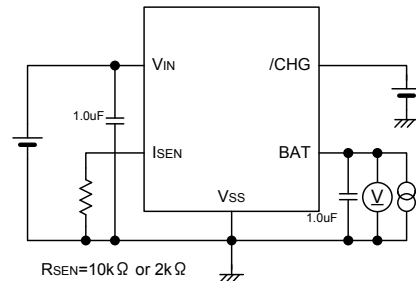
1. Please note that in cases where the charge current is less than 100mA, there is a possibility that the trickle charge and the detection of charge completion may not function correctly.
2. For temporary, transitional voltage drop or voltage rising phenomenon, the IC is liable to malfunction should the ratings be exceeded.
3. Where wiring impedance is high, operations may become unstable due to noise and/or phase lag depending on output current. Please wire the C_{IN} as close to the IC as possible.
4. Torex places an importance on improving our products and their reliability.
We request that users incorporate fail-safe designs and post-aging protection treatment when using Torex products in their systems.

TEST CIRCUITS

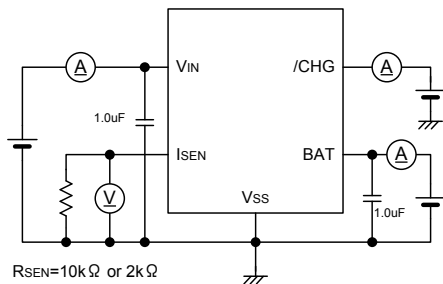
1. ON Resistance, Shut-down Voltage, I_{SEN} Pull-up current



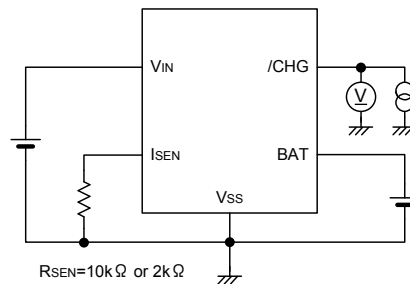
2. Battery Termination Detect Time, Recharge Battery Time C/10 Charge Termination Current Threshold1~2, Battery Termination Voltage1



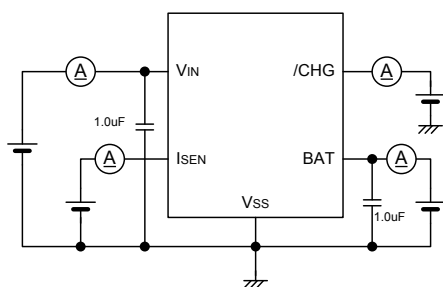
3. Trickle Charge Current1~2, Battery Current1~3, Battery Current5 I_{SEN} Pin Voltage, Trickle Charge Voltage, UVLO, Recharge Battery Threshold Voltage $V_{IN}-V_{BAT}$ Shut-down Release Voltage, /CHG Pin Weak Pull-down Current /CHG Pin Strong Pull-down Current, Stand-by Current, Shut-down Current



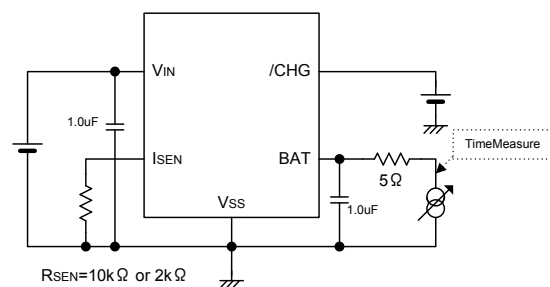
4. /CHG Pin, Output Low Voltage



5. Battery Current 4

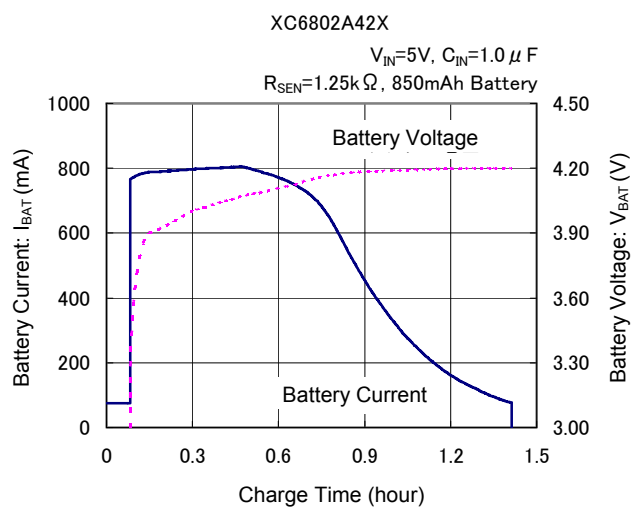
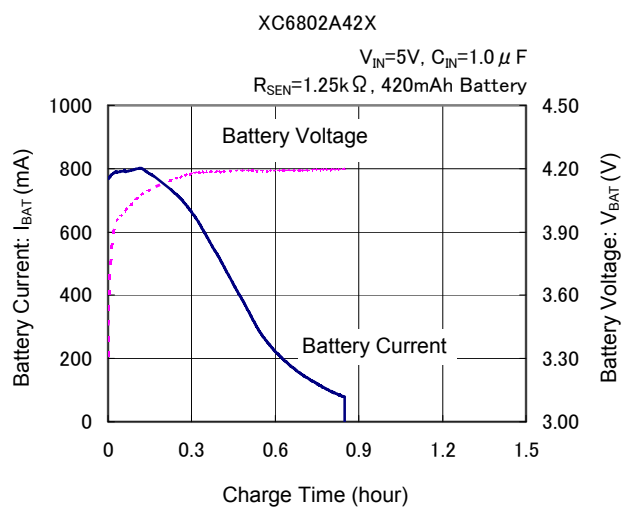


6. Soft-start

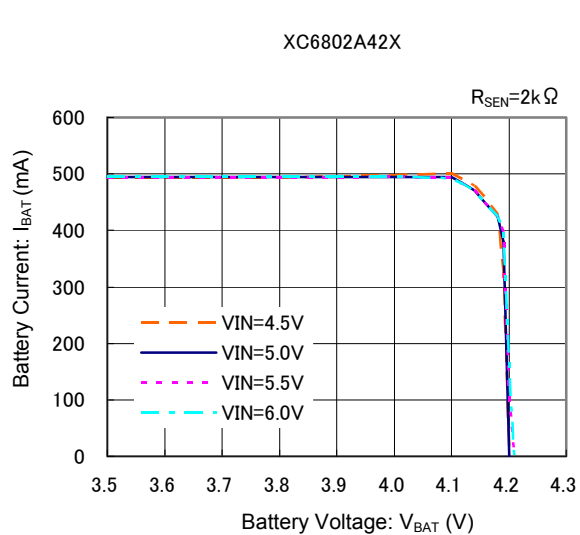
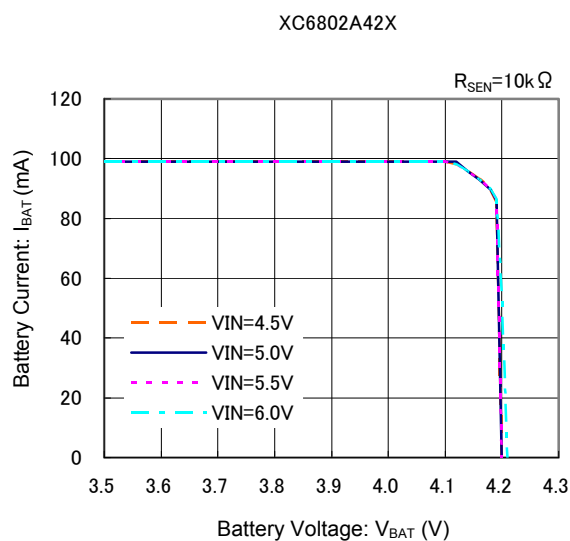
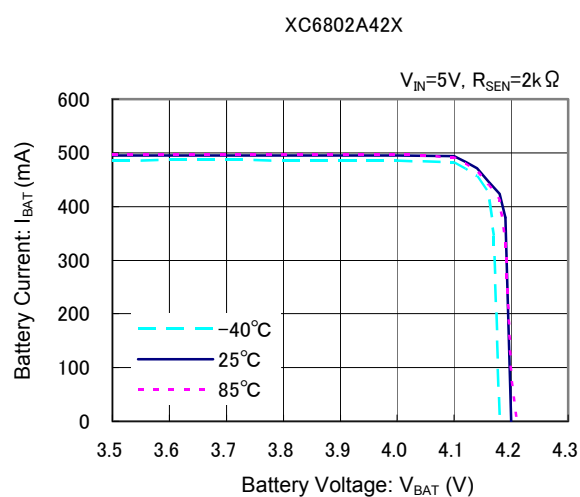
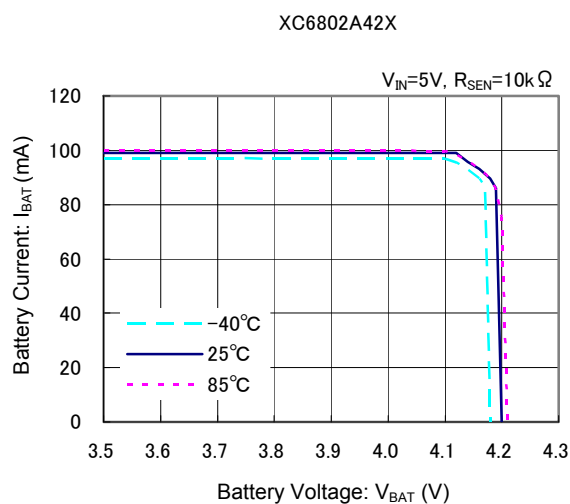


■ TYPICAL PERFORMANCE CHARACTERISTICS

(1) Charge Cycle

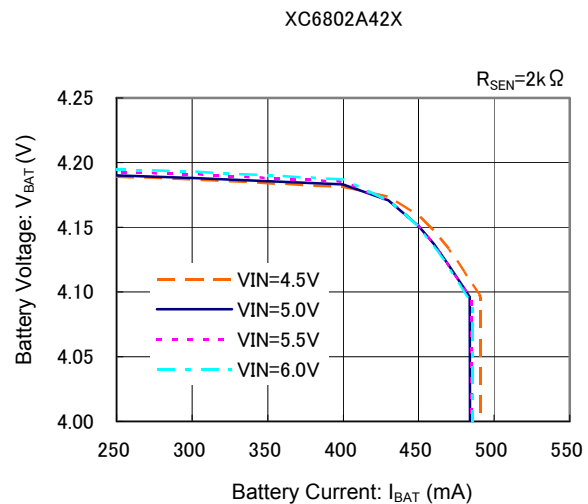
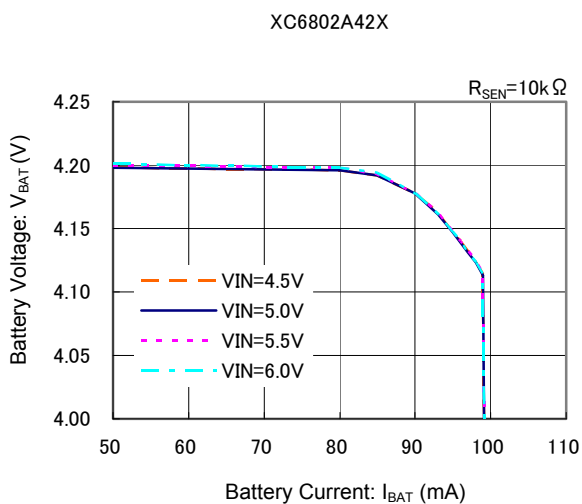
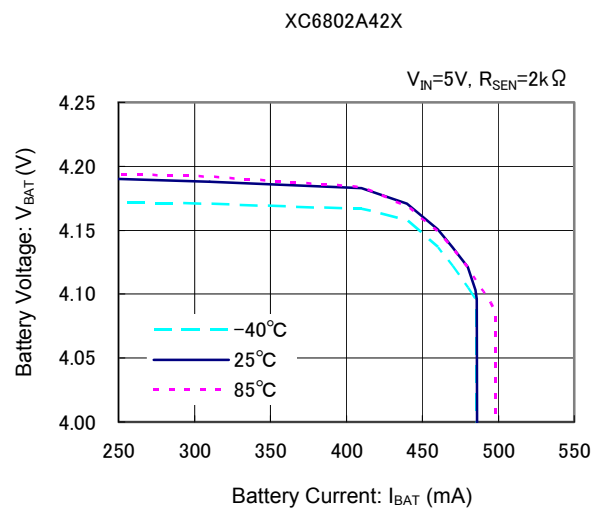
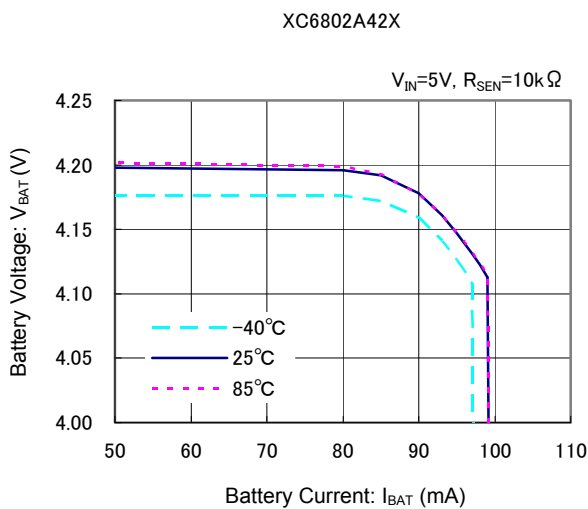


(2) Battery Current vs. Battery Voltage

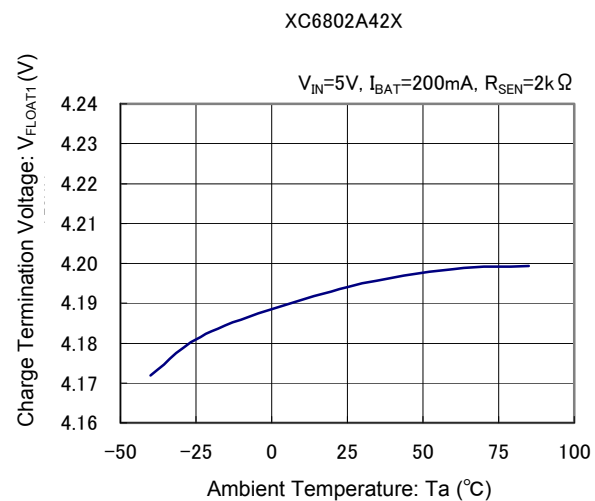
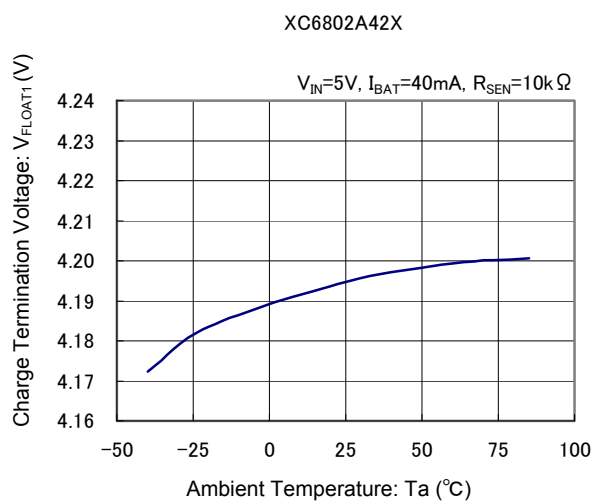


TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

(3) Battery Voltage vs. Battery Current

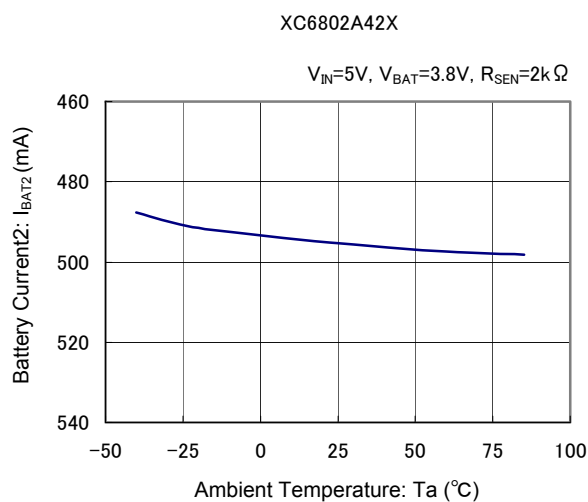
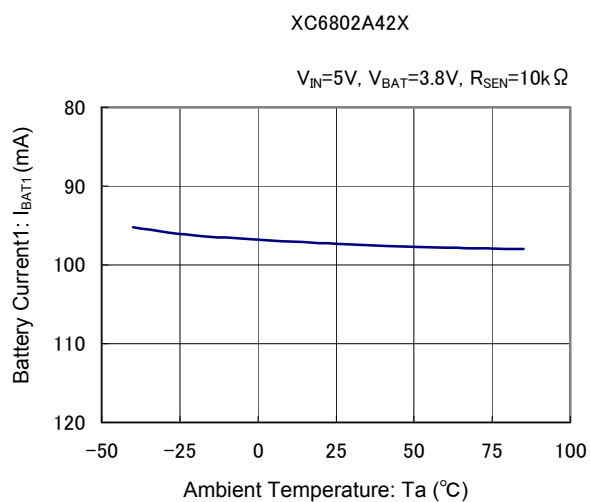


(4) Charge Termination Voltage vs. Ambient Temperature

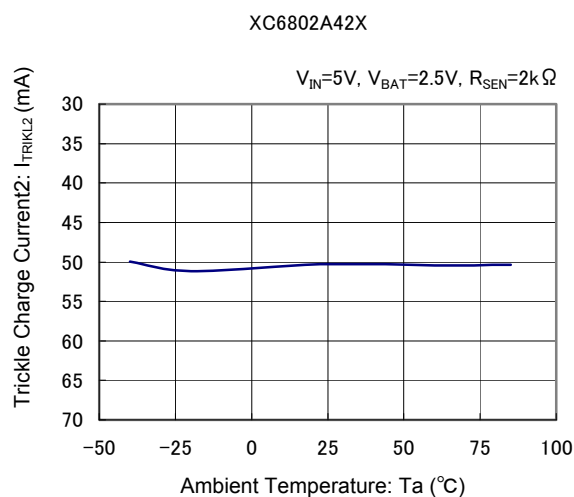
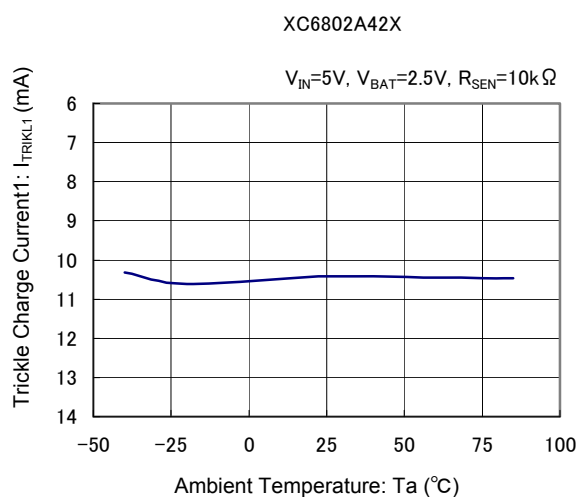


■ TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

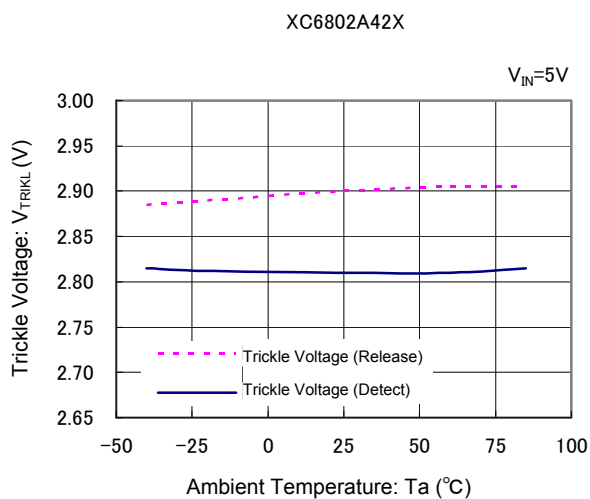
(5) Battery Current vs. Ambient Temperature



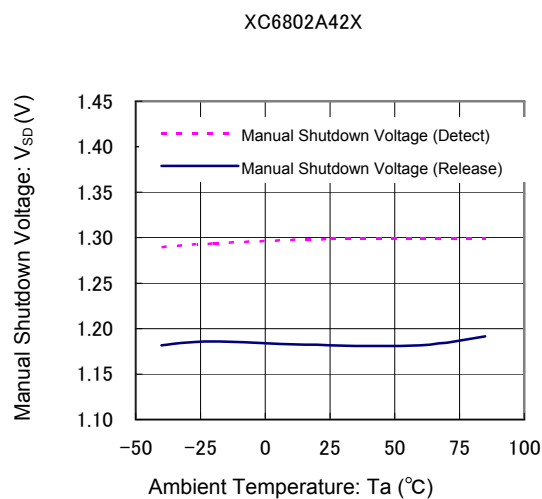
(6) Trickle Charge Current vs. Ambient Temperature



(7) Trickle Voltage vs. Ambient Temperature

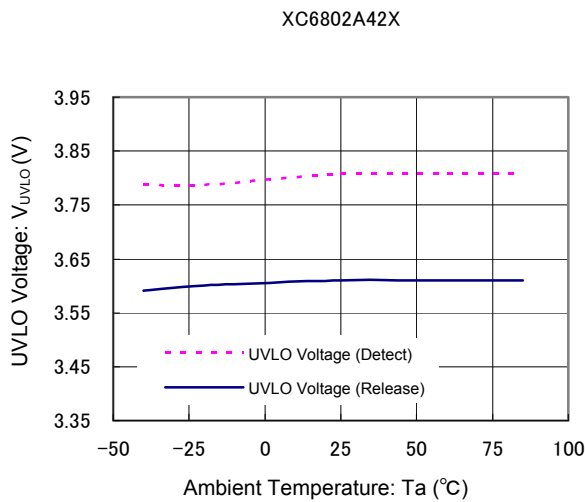


(8) Manual Shutdown Voltage vs. Ambient Temperature

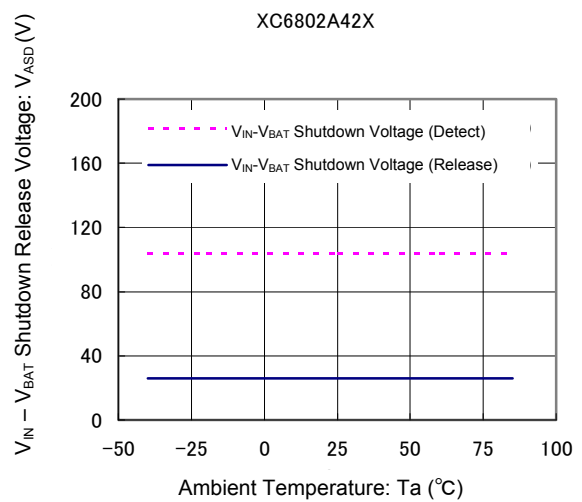


TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

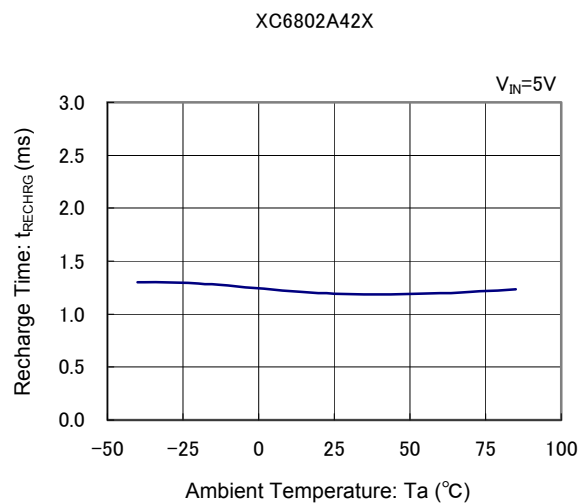
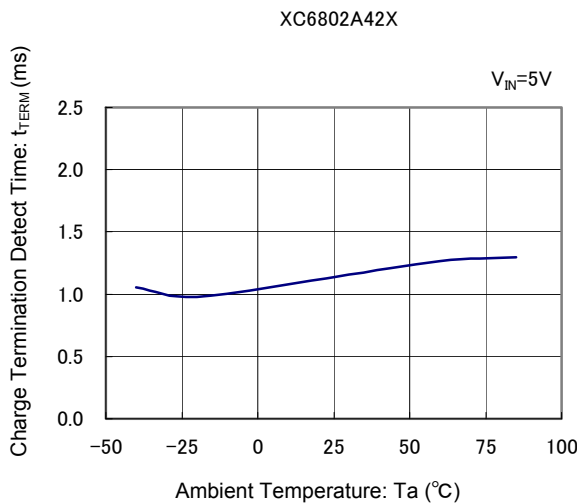
(9) UVLO Voltage vs. Ambient Temperature



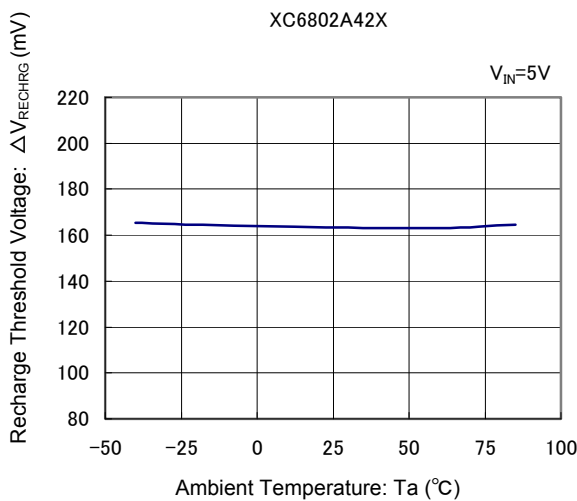
(10) $V_{IN} - V_{BAT}$ Shutdown Voltage vs. Ambient Temperature



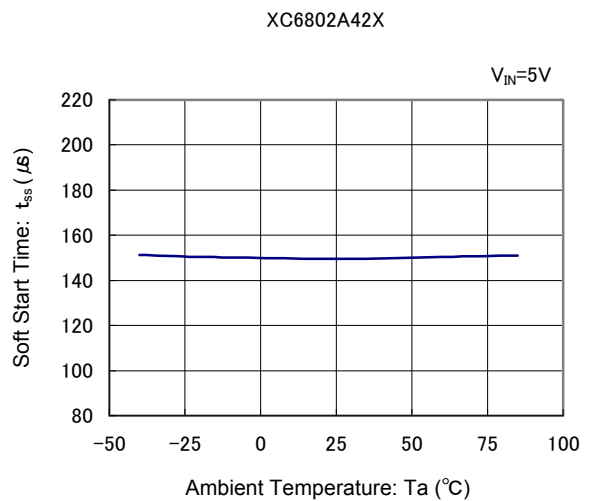
(11) Charge Termination Detect Time vs. Ambient Temperature (12) Recharge Time vs. Ambient Temperature



(13) Recharge Threshold Voltage vs. Ambient Temperature

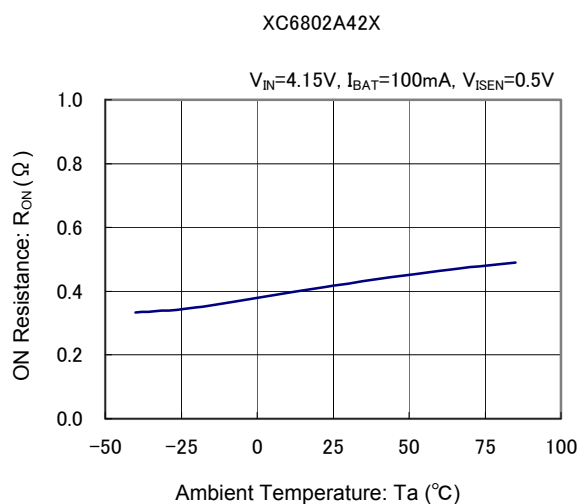


(14) Soft Start Time vs. Ambient Temperature

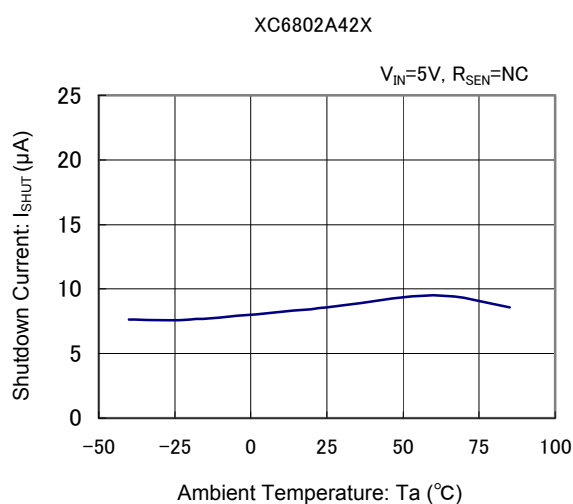


■ TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

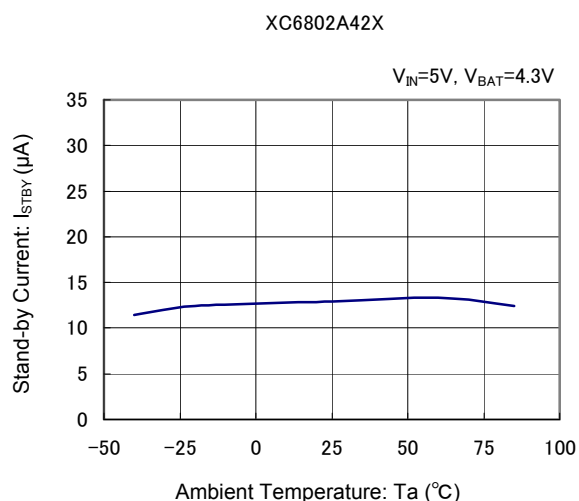
(15) ON Resistance vs. Ambient Temperature



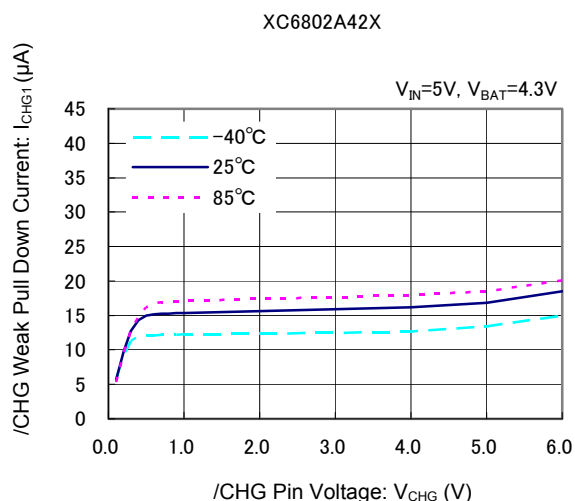
(16) Shutdown Current vs. Ambient Temperature



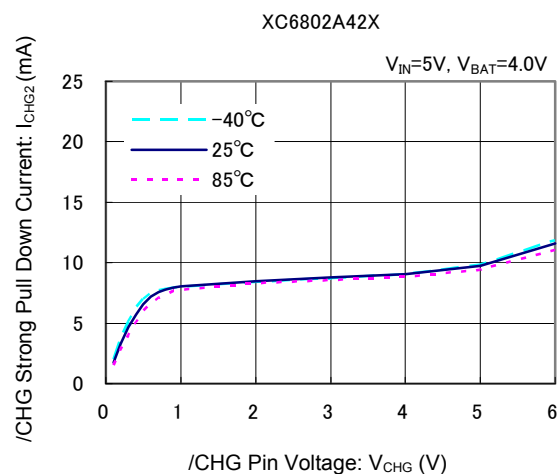
(17) Stand-by Current vs. Ambient Temperature



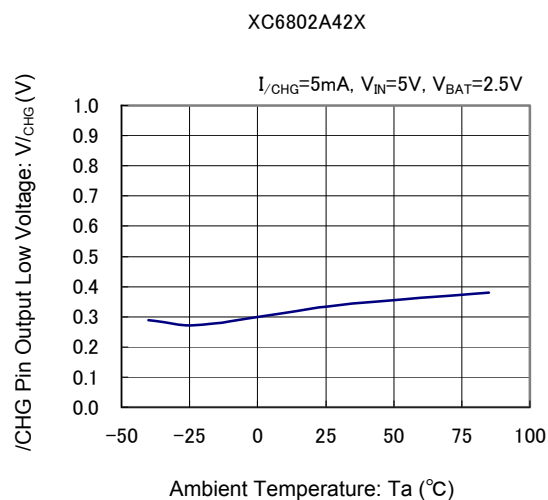
(18) /CHG Weak Pull Down Current vs. /CHG Pin Voltage



(19) /CHG Strong Pull Down Current vs. /CHG Pin Voltage

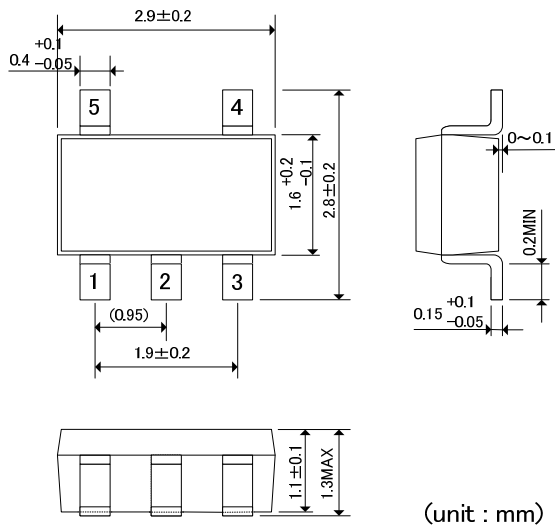


(20) /CHG Pin Output Low Voltage vs. Ambient Temperature

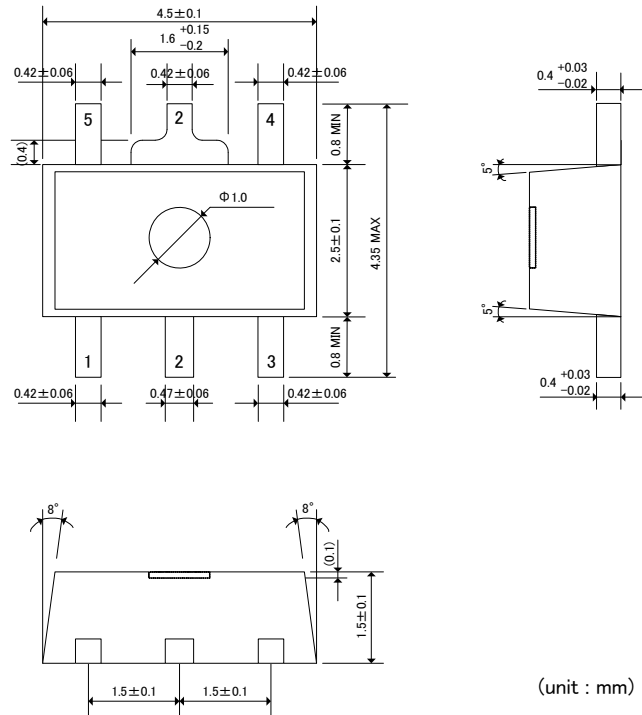


PACKAGING INFORMATION

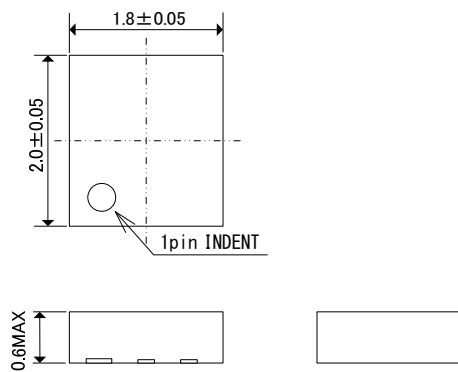
●SOT-25



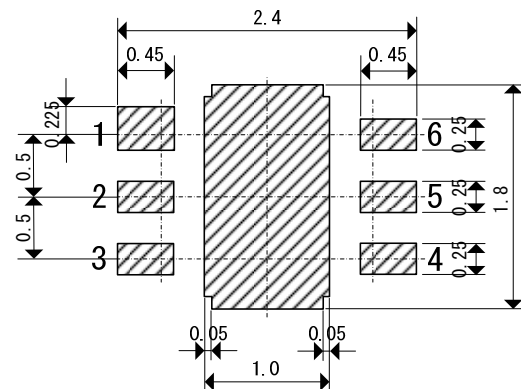
●SOT-89-5



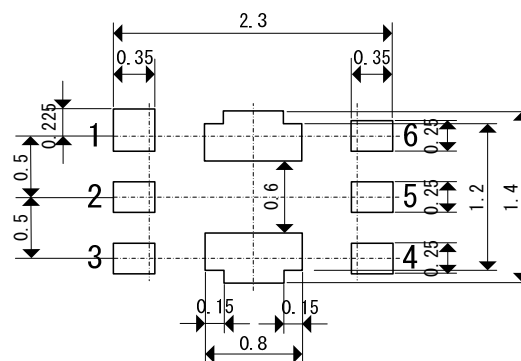
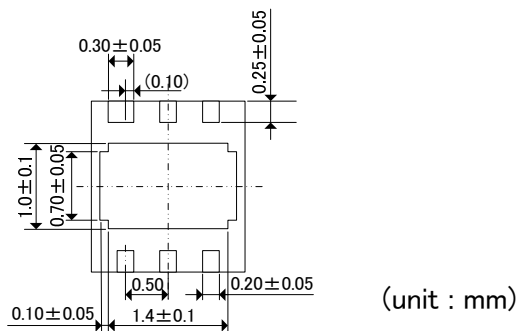
●USP-6C



●USP-6C Reference Pattern Layout

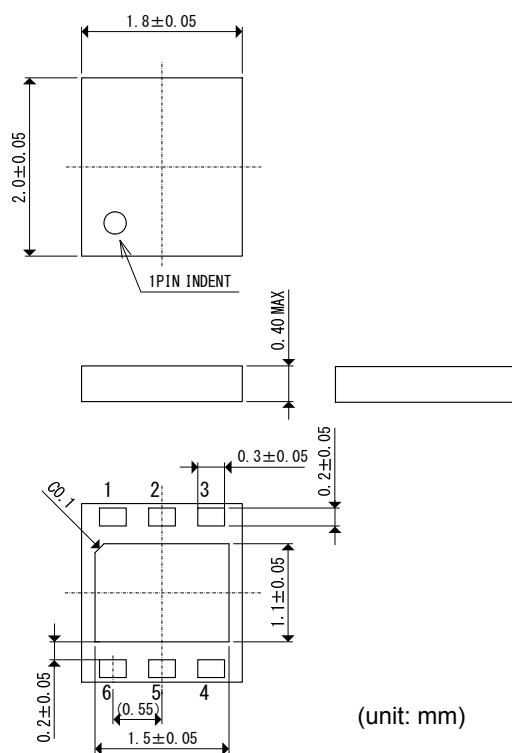


●USP-6C Reference Metal Mask Design

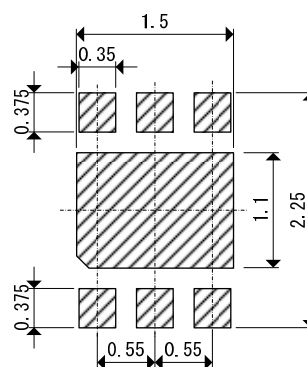


■ PACKAGING INFORMATION (Continued)

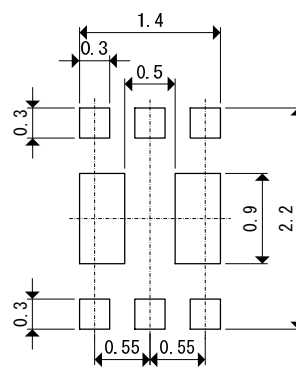
● USP-6EL



<USP-6EL Reference Pattern Layout>

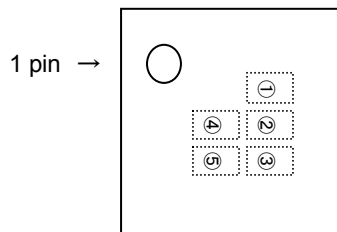


<USP-6EL Reference Metal Mask Design>



MARKING RULE

USP-6C / USP-6EL



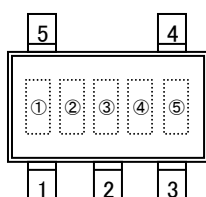
① Represents product series

MARK	PRODUCT SERIES
N	XC6802*****-G

② Standard product, Represent the 7th digits

MARK	PRODUCT SERIES
A	XC6802A*****-G

SOT-25



③ Standard product, Represents the 8th digits

MARK	PRODUCT SERIES
4	XC6802*4****-G

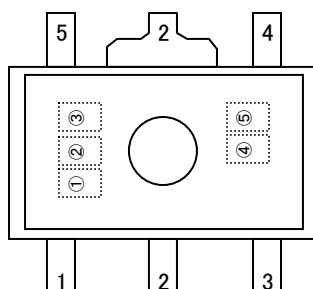
④⑤ Represents production lot number

01 to 09, 0A to 0Z, 11 to 9Z, A1 to A9, AA to AZ, B1 to ZZ in order.

(G, I, J, O, Q, W excepted)

*No character inversion used.

SOT-89-5



■ PACKAGING INFORMATION (Continued)

● SOT-89-5 Power Dissipation

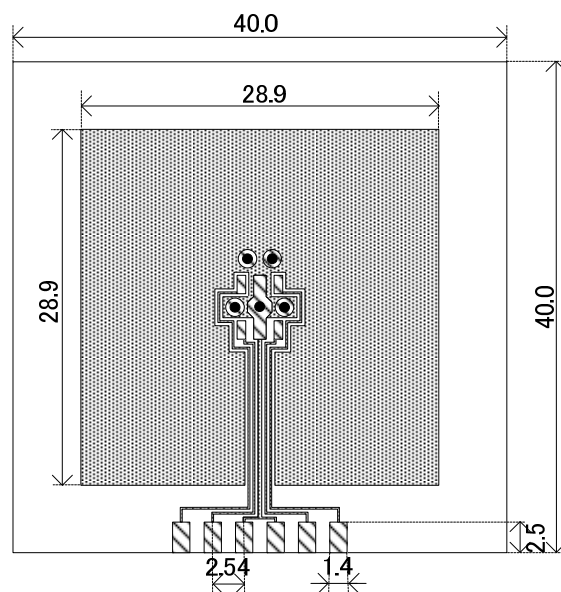
Power dissipation data for the SOT-89-5 is shown in this page.

The value of power dissipation varies with the mount board conditions.

Please use this data as one of reference data taken in the described condition.

1. Measurement Condition (Reference data)

- Condition: Mount on a board
- Ambient: Natural convection
- Soldering: Lead (Pb) free
- Board: Dimensions 40 x 40 mm (1600 mm² in one side)
Copper (Cu) traces occupy 50% of the board area
In top and back faces
Package heat-sink is tied to the copper traces
- Material: Glass Epoxy (FR-4)
- Thickness: 1.6 mm
- Through-hole: 5 x 0.8 Diameter

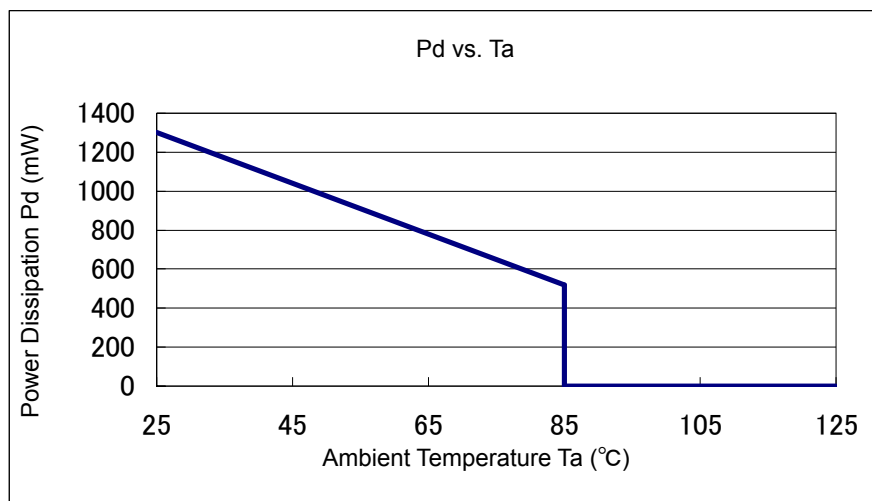


Evaluation Board (Unit: mm)

2. Power Dissipation vs. Ambient Temperature

Board Mount ($T_j \text{ max} = 125^\circ\text{C}$)

Ambient Temperature ($^\circ\text{C}$)	Power Dissipation P_d (mW)	Thermal Resistance ($^\circ\text{C/W}$)
25	1300	76.92
85	520	



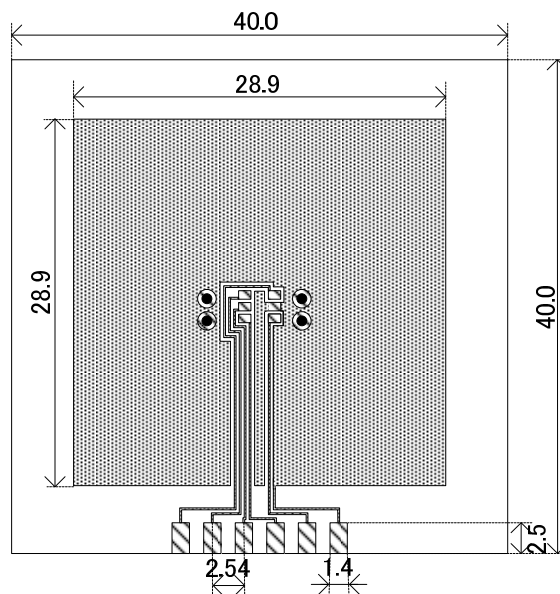
■ PACKAGING INFORMATION (Continued)

● SOT-25 Power Dissipation

Power dissipation data for the SOT-25 is shown in this page.
The value of power dissipation varies with the mount board conditions.
Please use this data as one of reference data taken in the described condition.

1. Measurement Condition (Reference data)

Condition: Mount on a board
Ambient: Natural convection
Soldering: Lead (Pb) free
Board: Dimensions 40 x 40 mm (1600 mm² in one side)
Copper (Cu) traces occupy 50% of the board area
In top and back faces
Package heat-sink is tied to the copper traces
(Board of SOT-26 is used.)
Material: Glass Epoxy (FR-4)
Thickness: 1.6 mm
Through-hole: 4 x 0.8 Diameter

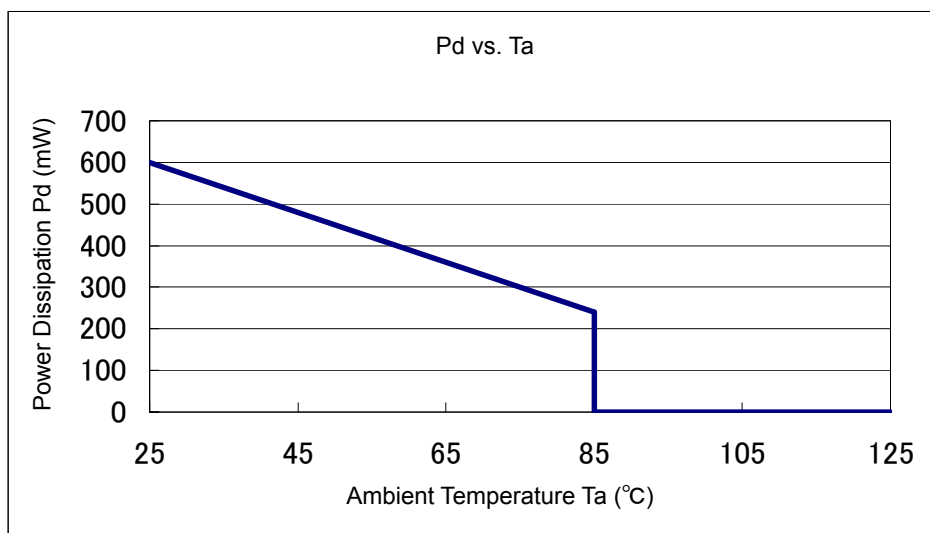


Evaluation Board (Unit: mm)

2. Power Dissipation vs. Ambient Temperature

Board Mount ($T_j \text{ max} = 125^\circ\text{C}$)

Ambient Temperature ($^\circ\text{C}$)	Power Dissipation P_d (mW)	Thermal Resistance ($^\circ\text{C/W}$)
25	600	166.67
85	240	



■ PACKAGING INFORMATION (Continued)

● USP-6C Power Dissipation

Power dissipation data for the USP-6C is shown in this page.

The value of power dissipation varies with the mount board conditions.

Please use this data as one of reference data taken in the described condition.

1. Measurement Condition (Reference data)

Condition: Mount on a board

Ambient: Natural convection

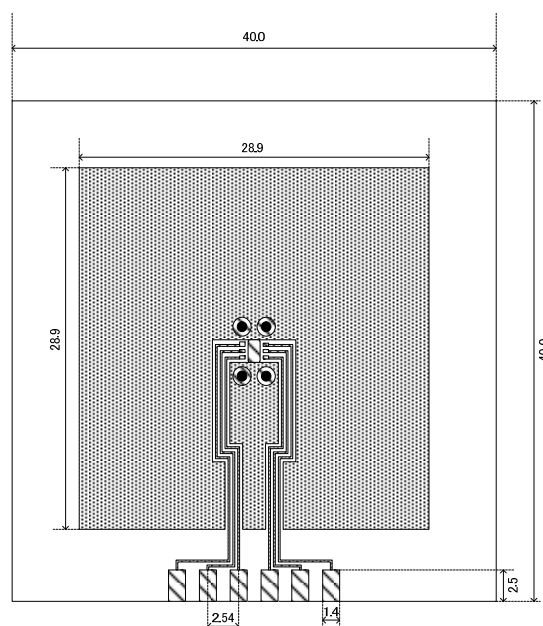
Soldering: Lead (Pb) free

Board: Dimensions 40 x 40 mm (1600 mm² in one side)
Copper (Cu) traces occupy 50% of the board area
In top and back faces
Package heat-sink is tied to the copper traces

Material: Glass Epoxy (FR-4)

Thickness: 1.6 mm

Through-hole: 4 x 0.8 Diameter

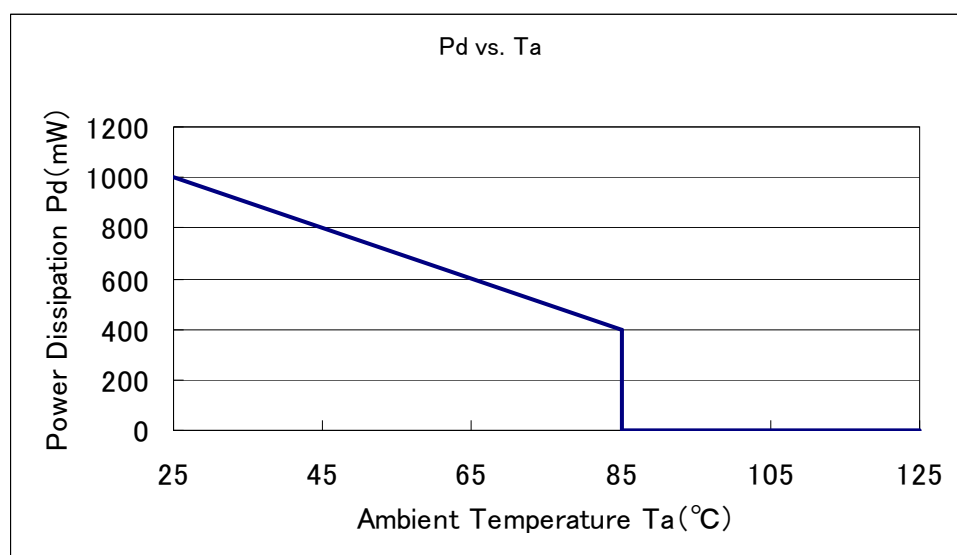


Evaluation Board (Unit: mm)

2. Power Dissipation vs. Ambient Temperature

Board Mount ($T_j \text{ max} = 125^\circ\text{C}$)

Ambient Temperature (°C)	Power Dissipation Pd (mW)	Thermal Resistance (°C/W)
25	1000	100
85	400	



■ PACKAGING INFORMATION (Continued)

● USP-6EL Power Dissipation

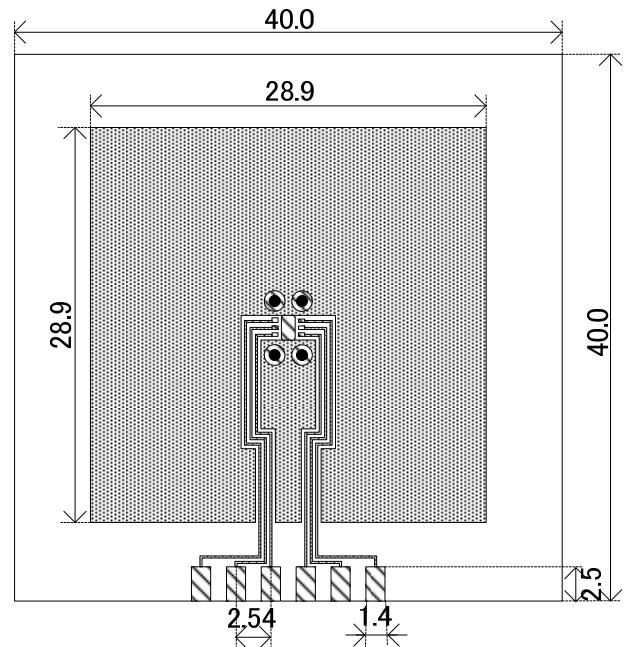
Power dissipation data for the USP-6EL is shown in this page.

The value of power dissipation varies with the mount board conditions.

Please use this data as one of reference data taken in the described condition.

1. Measurement Condition (Reference data)

Condition: Mount on a board
 Ambient: Natural convection
 Soldering: Lead (Pb) free
 Board: Dimensions 40 x 40 mm (1600 mm² in one side)
 Copper (Cu) traces occupy 50% of the board area
 In top and back faces
 Package heat-sink is tied to the copper traces
 Material: Glass Epoxy (FR-4)
 Thickness: 1.6 mm
 Through-hole: 4 x 0.8 Diameter

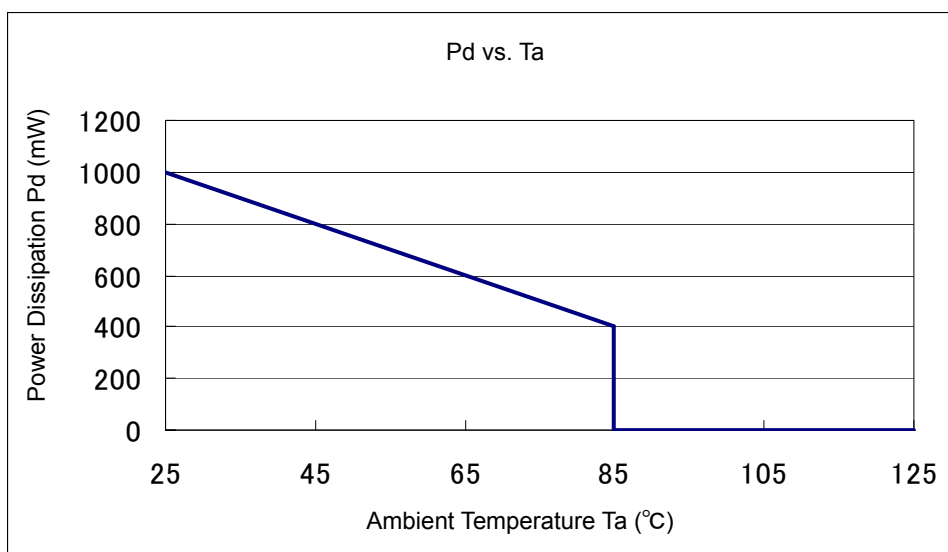


Evaluation Board (Unit: mm)

2. Power Dissipation vs. Ambient Temperature

Board Mount ($T_j \text{ max} = 125^\circ\text{C}$)

Ambient Temperature ($^\circ\text{C}$)	Power Dissipation P_d (mW)	Thermal Resistance ($^\circ\text{C/W}$)
25	1000	100.00
85	400	



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