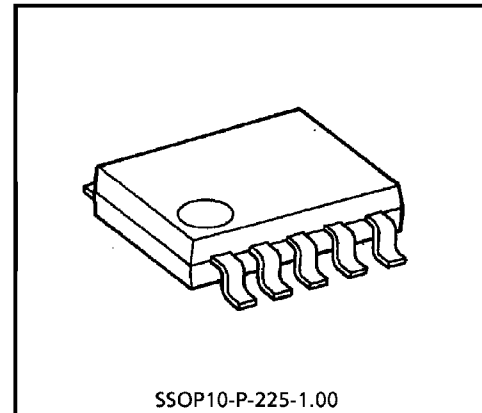


TA8523F

PB BATTERY CHARGER IC

TA8523F is applicable to two cells for mutual charge and discharge. This IC includes reference voltage circuit, hysteresis comparator, and supply current circuit. Battery is charged by the current is made from external Resistance, Transistor, and this IC has function to be change to 5mA at charging voltage 4.90V (Typ.).

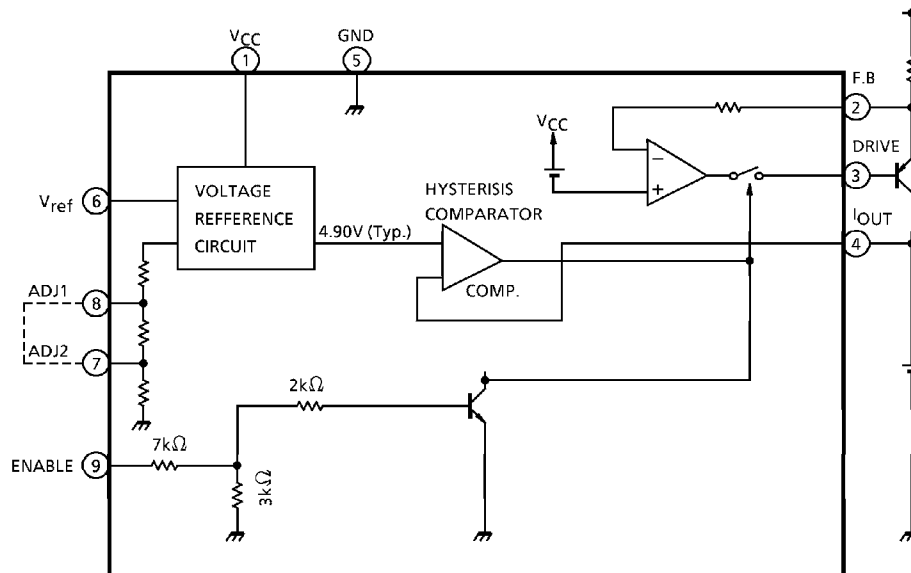


Weight : 0.1g (Typ.)

FEATURES

- Reference voltage can be adjusted by ADJ 1, ADJ 2.
- Charging Current can be set by external Tr, R.
- Built-in enable function.

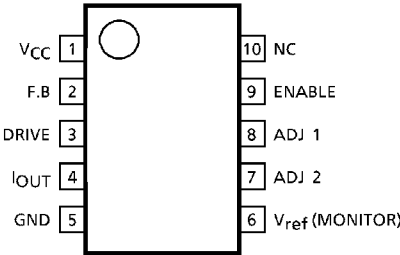
BLOCK DIAGRAM



961001EBA2

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PIN CONNECTION MFP-10



MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	V _{CC}	14	V
Enable Terminal Voltage	V _{EN}	- 0.3~V _{CC}	V
F.B, Drive Terminal Voltage	V _{FB} , DRIVE	- 0.3~V _{CC} + 0.3	V
ADJ 1, ADJ 2 Terminal Voltage	V _{ADJ}	- 0.3~V _{CC} + 0.3	V
Tr. Drive Current	I _{dr}	~ 10	mA
Power Dissipation	P _D	0.4	W
Operating Temperature	T _{opr}	0~60	°C
Storage Temperature	T _{stg}	- 55~150	°C

RECOMMENDED OPERATING CONDITION

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	V _{CC}	7.5~12	V
Enable Terminal Voltage	V _{EN}	2.5~V _{CC}	V
Tr. Drive Current	I _{dr}	~ 5	mA

ELECTRICAL CHARACTERISTICS (Unless otherwise specified, V_{CC} = 10V, Ta = 25°C)

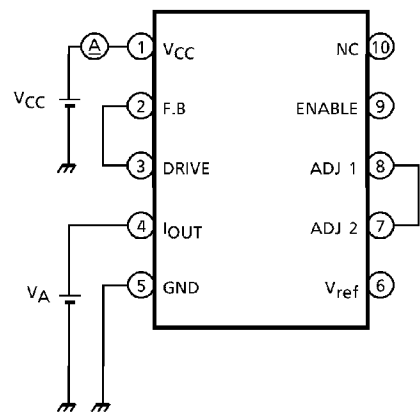
CHARACTERISTIC	SYMBOL	TEST CIR-CUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Current	I _{CC}	1	Enable ; Open	—	5	16	mA
Reference Voltage	V _{ref}	2	T _j = 25°C (Note)	4.80	4.90	5.00	V
Output Voltage (F. B Terminal)	V _{F.B}	3	V _{CC} - F.B	1.1	1.25	1.4	V
Leak Current	I _{leak}	4	V _{CC} →OFF	—	—	20	μA
Hysterisis Voltage	V _{HYS}	—	—	—	200	—	mV

(Note) Connection of ADJ Terminal is for the most neary value of V_{ref} = 4.90V, that is

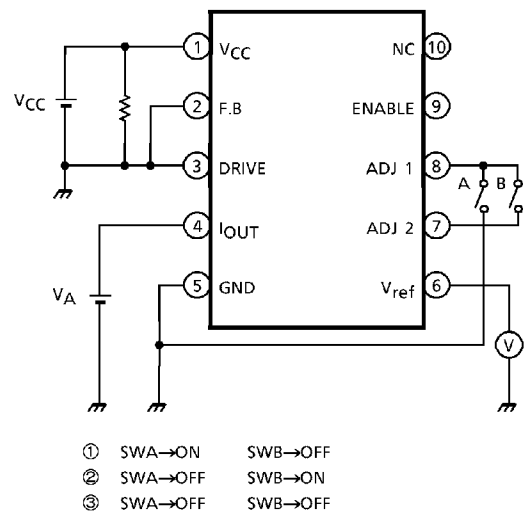
one out of { 8pin →GND
7pin →GND
7, 8pin→OPEN

TEST CIRCUIT

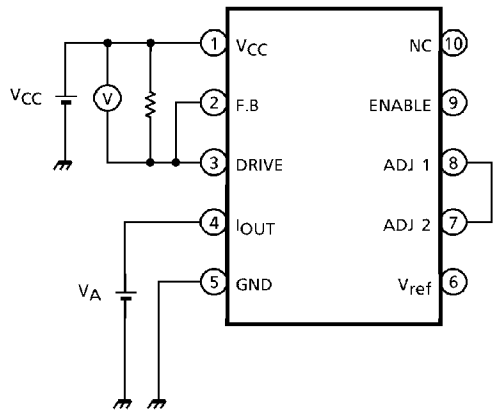
(1) Supply Current (I_{CC})



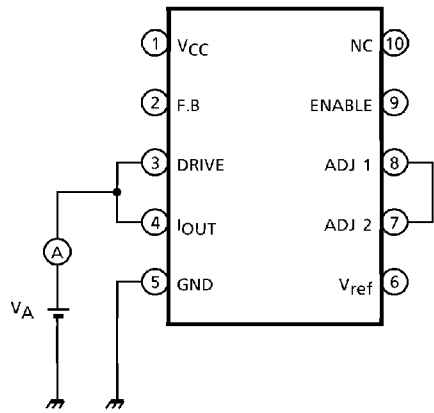
(2) Reference Voltage (V_{ref})



(3) Output Voltage (F.B Terminal) ($V_{F.B}$)

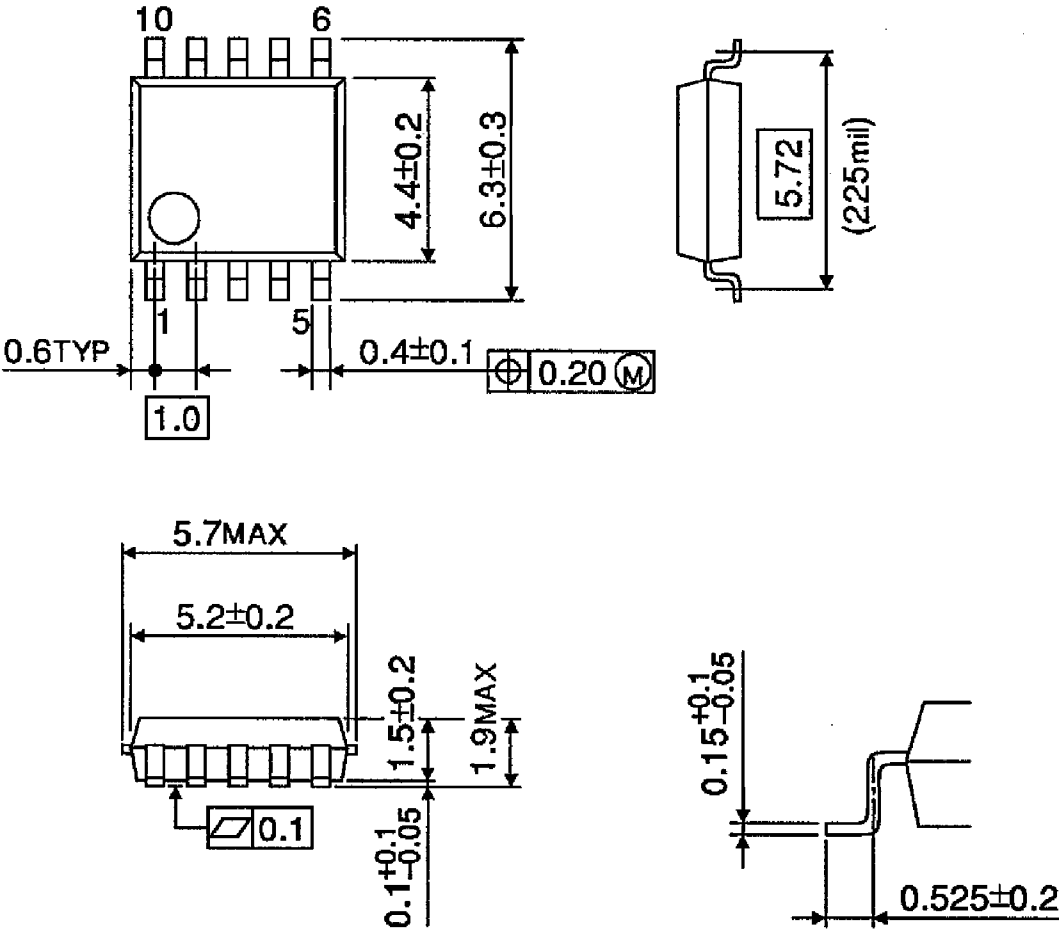


(4) Leak Current (I_{leak})



OUTLINE DRAWING
SSOP10-P-225-1.00

Unit : mm



Weight : 0.1g (Typ.)