AN8359M

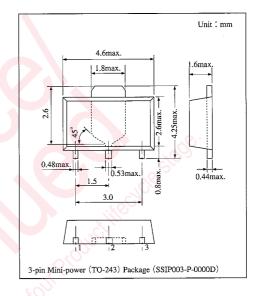
Battery Constant Current Charging IC

Overview

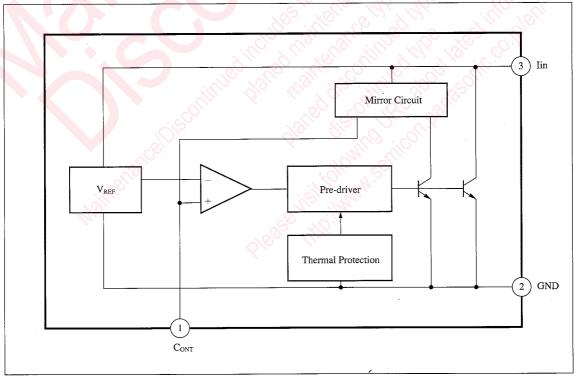
The AN8359M is an IC for constant current charging control of suction type for Ni-cd battery of cordless telephones and portable equipments.

Features

- Constant current value is able to be defined by setting external resistance
- Thermal protective circuit built-in
- · Mini-power package for surface mounting



Block Diagram



■ Absolute Maximum Ratings (Ta=25 °C)

Parameter	Symbol	Symbol Rating		
Input voltage	V_1	18	V	
Output current	Io	600	mA	
Power dissipation Note)	P _D	1000	mW	
Operating ambient temperature	Topr	-25 to +75	°C	
Storage temperature	T _{stg}	-55 to +150	°C	

Note) Copper foil of 1 cm² or more for surface mounting on glass epoxy $(20 \times 20 \times 1.7 \text{ mm})$

Recommended Operating Range ($Ta = 25 \degree$)

Parameter	Symbol	Range
Operating supply voltage	V _{cc}	1.3V to 12V

■ Electrical Characteristics $(Ta = 25 \pm 2^{\circ})$

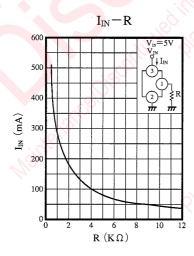
Parameter	Symbol	Condition	min	typ	max	Unit
Input current 1	I_{IN1}	$V_{IN}=1.3V, R_L=9.1K$	40	50	60	mA
Input current fluctuation with voltage 1	ΔI _{IN1} (LINE)	V_{IN} =1.3 to 12V, R_L =9.1K			5	mA
Input current 2	I _{IN2}	$V_{IN} = 1.3V, R_L = 1.6K$	170	200	230	mA
Input current fluctuation with voltage 2	ΔI _{IN2} (LINE)	$V_{IN} = 1.3 \text{ to } 5V, R_L = 1.5K$			20	mA
Overheat protective operation temperature Note 2)	$T_{j(TH)}$			150	—	C
Maximum input current Note 2)	I _{IN (max)}	$V_{IN}=2V$, $R_L=0.5k\Omega$	_	500	— <u>;</u>	mA

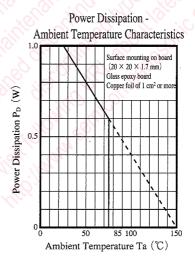
Note 1) The measurement time is 10 ms or less.

Note 2) These are design reference values, not guaranteed ones.

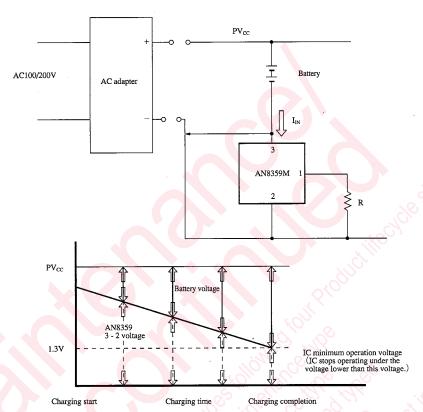
Voltage Regulators

■ Characteristics Curve





■ Operation Characteristics



Using thermistor for *R can give the current value the temperature characteristics.

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