

AN8359M

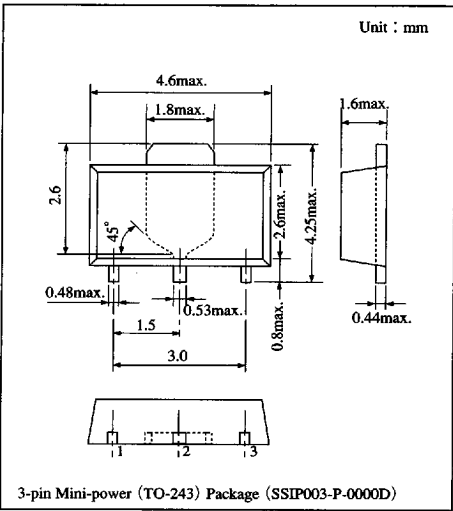
Battery Constant Current Charging IC

Overview

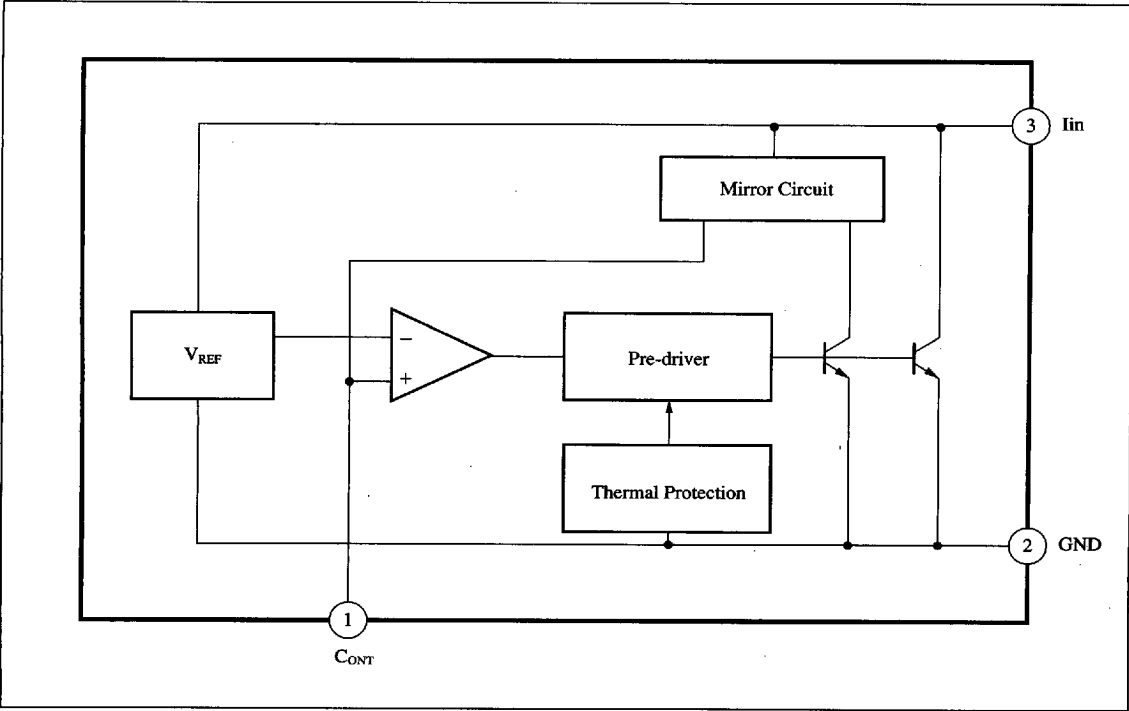
The AN8359M is an IC for constant current charging control of suction type for Ni-cd battery of cordless telephones and portable equipments.

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



6932852 0012799 314

■ Absolute Maximum Ratings (Ta=25 ℃)

Parameter	Symbol	Rating	Unit
Input voltage	V_I	18	V
Output current	I_O	600	mA
Power dissipation ^{Note)}	P_D	1000	mW
Operating ambient temperature	T_{opr}	-25 to +75	℃
Storage temperature	T_{sig}	-55 to +150	℃

Note) Copper foil of 1 cm² or more for surface mounting on glass epoxy (20 × 20 × 1.7 mm)

■ Recommended Operating Range (Ta = 25 ℃)

Parameter	Symbol	Range
Operating supply voltage	V_{CC}	1.3V to 12V

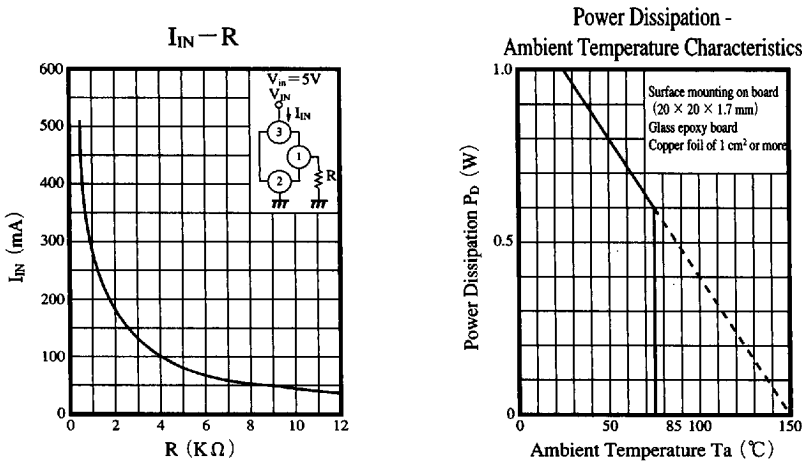
■ Electrical Characteristics (Ta = 25 ± 2℃)

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)	$V_{IN}=1.3$ to $5V, R_L=1.5K$	—	—	20	mA
Overheat protective operation temperature ^{Note 2)}	$T_{j(TH)}$		—	150	—	℃
Maximum input current ^{Note 2)}	$I_{IN(max)}$	$V_{IN}=2V, R_L=0.5k\Omega$	—	500	—	mA

Note 1) The measurement time is 10 ms or less.
Note 2) These are design reference values, not guaranteed ones.

Voltage
Regu-
lators

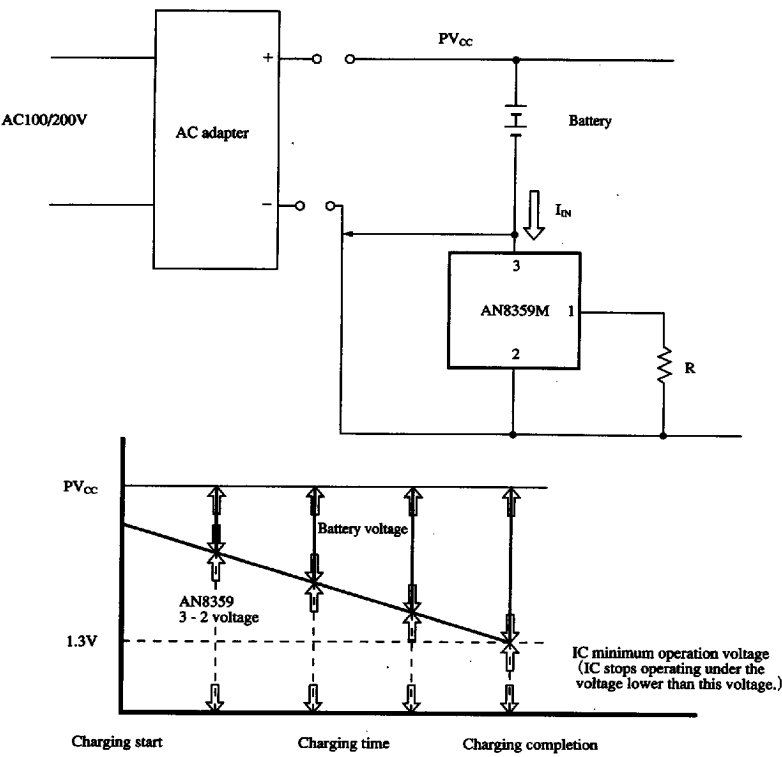
■ Characteristics Curve



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Panasonic

■ Operation Characteristics



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