

1.2A/16V Fully Integrated Linear Charger for 1 Cell Li-ion Battery

DESCRIPTION

ETA4056 is a single cell, fully integrated constant current (CC)/constant voltage (CV) Li-ion battery charger. Its compact package with minimum external components requirement makes the ETA4056 ideal for portable applications. No external sense resistor or blocking diode is necessary for the ETA4056. Build-in thermal feedback mechanism regulates the charge current to control the die temperature during high power operation or at elevated ambient temperature. The ETA4056 has a pre-charge function for trickle charging deeply discharged batteries. The fast charge current can be programmed by an external resistor. CV regulation mode is automatically enabled once the battery's charging curve reaches the constant voltage portion. The output current then decays and is finally terminated once the charge current drops to 1/10th of the programmed value. The ETA4056 keeps monitoring the battery voltage and enables a new charge cycle once the voltage drops by 150mV below the CV value.

ETA4056 is in an ESOP8, DFN2x2-8, DFN2x3-8, and SOT23-6 package.

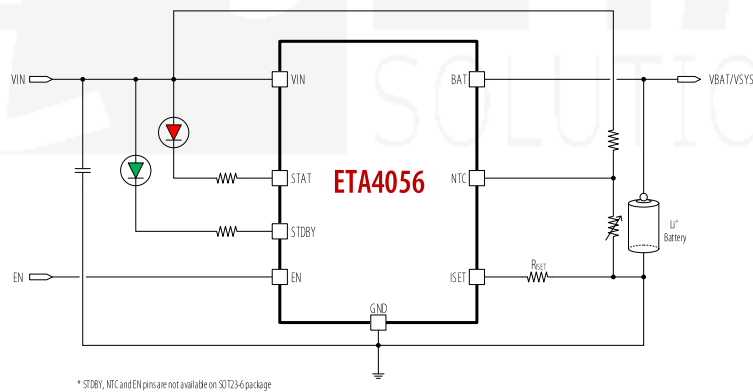
FEATURES

- ◆ 16V input standoff voltage
- ◆ 4.2V charge termination voltage
- ◆ 2.9V trickle charge threshold
- ◆ Charge current programmable, up to 1.2A
- ◆ 250nA BAT current when no charging
- ◆ Soft-start limits in-rush current
- ◆ ESOP8 / DFN2x2-8 / DFN2x3-8 / SOT23-6

APPLICATIONS

- ◆ E-cigarette
- ◆ Toys
- ◆ Bluetooth applications
- ◆ Li-ion battery powered devices

TYPICAL APPLICATION



ORDERING INFORMATION

PART No.	PACKAGE	TOP MARK	Pcs/Reel
ETA4056E8A	ESOP8	4056 YWW2L	2500
ETA4056D2I	DFN2x2-8	ELYW	3000
ETA4056D6I	DFN2x3-8	ELYW	3000
ETA4056S2G	SOT23-6	E6YW	3000