

PQ5RS1 series Low Power-Loss Voltage Regulator

0.15A Output, High Cost Performance Type Low Power-Loss Voltage Regulator
(Built-in Reset Signal Generating Function)

General Description

Sharp's **PQ5RS1 series** is 0.15A output, high cost performance type low power-loss voltage regulator with built-in reset signal generating function.

It is applicable to the malfunction prevention of microcomputers when power supplies of various electronic equipment(AV, OA equipment) are turned-on or out of order.

Features

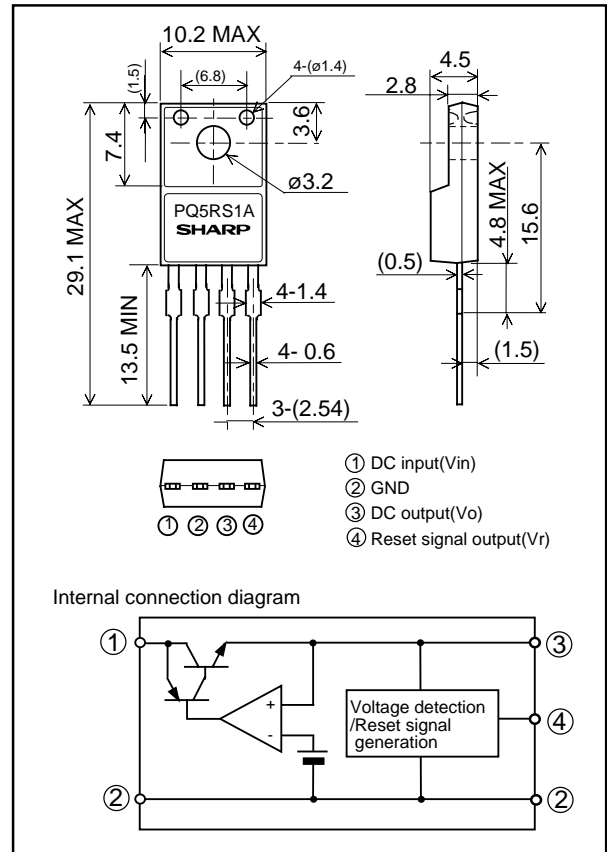
- (1) Built-in reset signal generating function
(7 series of reset threshold voltage are available.)
- (2) Low power-loss
(Dropout voltage: MAX. 1.2V at $I_o=0.1A$)
- (3) Compact resin full-mold package(equivalent to TO-220)
- (4) High precision output type
(Output voltage precision: $\pm 3.0\%$)
- (5) Overcurrent protection, overheat protection function

Applications

- (1) Power supplies for various electronic equipment such as AV, OA equipment

Outline Dimensions

(Unit : mm)



Electrical Characteristics

($T_a=25^\circ C$)

Parameter	Symbol	Ratings	Unit
Input voltage	V_i	MAX 15	V
Output voltage	V_o	5.0	V
Output current	I_o	0.15	A
Dropout voltage	V_{i-o}	MAX. 1.2V(at $I_o=0.1A$)	V
Reset threshold voltage	V_{rt}	* Refer to the table.	V
Power dissipation(No heat sink)	P	0.9	W
Operating temperature	T_{opr}	-20 to + 80	$^\circ C$

* Table of reset threshold voltage

Model No.	Reset threshold voltage
PQ5RS1A	$4.7 \pm 0.15V$
PQ5RS1B	$4.5 \pm 0.15V$
PQ5RS1C	$4.2 \pm 0.15V$
PQ5RS1D	$3.9 \pm 0.15V$
PQ5RS1E	$3.6 \pm 0.15V$
PQ5RS1F	$3.3 \pm 0.15V$
PQ5RS1G	$3.1 \pm 0.15V$

(Notice)

- In the absence of device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.

- Specifications are subject to change without notice for improvement.

(Internet)

- Data for Sharp's optoelectronic/power devices is provided for internet. (Address <http://www.sharp.co.jp/ecg/>)