

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

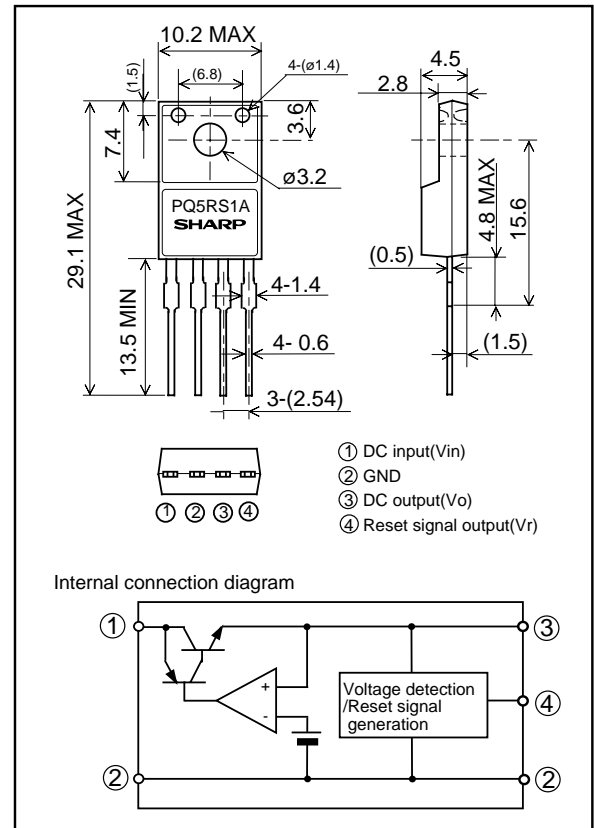
- (1) Built-in reset signal generating function
(7 series of reset threshold voltage are available.)
- (2) Low power-loss
(Dropout voltage: MAX. 1.2V at $I_o=0.1A$)
- (3) Compact resin full-mold package(equivalent to TO-220)
- (4) High precision output type
(Output voltage precision: $\pm 3.0\%$)
- (5)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

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• 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/>)