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Sales & Marketing Group

-Electronic Components & Devices

Model PQ2Lxxx2MSP

Low Current, Dual Output Type, Low Power-Loss Voltage Regulator

Features

- Dual output type with high heat radiation package SOT-89
Power dissipation: 0.9 W
- Dual outputs, 250 mA on each channel
Output 1: 3.3 V/2.5 V, 250 mA
Output 2: 1.3 - 3.3 V (Increments of 0.1 V), 250 mA
- Ceramic capacitors can be used for output smoothing
- Reduced package area
(Compared to two conventional PQ1Kxx3M2Z packages: 14 % reduction)

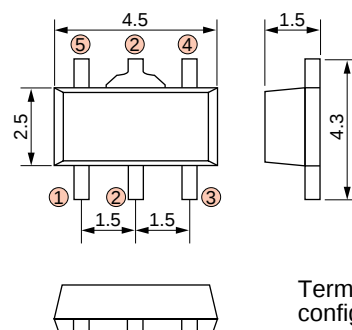
Applications

- Cellular phone
- DVD players
- PDA
- Optical disc device
- Digital TV
- Digital still camera
- Set-top box
- Printer

Specifications

Parameter	Symbol	Characteristics	
		Output 1	Output 2
Voltage input	Vin	MAX. 9 V	
Output current	Io	MIN. 250 mA	MIN. 250 mA
Power dissipation	Pd	900 mW	
Output voltage	Vo	3.3/2.5 V	2.5 V/1.8 V
Dropout voltage	Vi-o	MAX. 0.4 V (Io=100 mA)	
Dissipation current	Iq	MAX. 400 μ A	
Operating temperature	Topr	-30 to +80 °C	

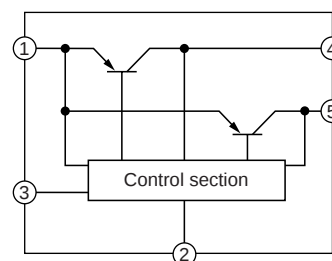
Outline Dimensions (Unit: mm)



Terminal configuration

- ① Vin
- ② GND
- ③ Nr
- ④ Vo2
- ⑤ Vo1

Internal Configuration Diagram



Line-up of Low Current Output Regulators

Output current	Package			Fixed output type
1-output	150 mA	TO-92	Bipolar type	General-purpose type
				PQ033ES1MWP PQ050ES1MWP
	180 mA	SOT-23L	Bipolar type	General-purpose type
		SOT-23-5	Bipolar type	General-purpose type
				PQ1R30 series
				PQ1U301M2ZP series
				PQ1X301M2ZP series
	200 mA	SOT-23-5	CMOS type	General-purpose type
	300 mA	SOT-23L	Bipolar type	General-purpose type
		SOT-89	Bipolar type	General-purpose type
				PQ1T301M2ZP series
				PQ1K303M2ZP series
				PQ1L303M2SP series
2-output	250 mA	SOT-89	Bipolar type	General-purpose type
				PQ2Lxxx2MSP series

PQ2Lxxx2MSP series New product

Notice:

- In the absence of confirmation by 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 devices.
- Specifications are subject to change without notice for improvement.