

■ Quick Reference Guide for Low Power-Loss Voltage Regulators

Package	Model No	Output current		Functions					Available for tape-packaged products	Output voltage	Page
		0.5A	1A	Overheat protection	Overcurrent protection	ON/OFF control	Low dissipation current at OFF-state	Variable output			
SC 63	PQ2TZ55									2.5V	34
	PQ2TZ15									2.5V	34
	PQ3TZ30									3.0V	38
	PQ3TZ33									3.3V	38
	PQxxSZ5 series								Reverse-voltage protection between input and output	5V, 9V, 12V	43
	PQxxSZ1 series								Reverse-voltage protection between input and output	5V, 9V, 12V	43
	PQxxTZ51 series									5V, 9V, 12V	50
	PQxxTZ11 series									5V, 9V, 12V	50
	PQ7VZ5									1.5 to 7V	58
PQ20VZ51									1.5 to 20V	63	
PQ20VZ11									1.5 to 20V	63	

xx stands for the values of output voltage shown in the right of this chart. (5V:05, 9V:09, 12V:12)

Package	Model No.	Output current					Functions					Available for lead forming type	Output voltage	Page	
		1A	1.5A	2A	3A	4A	Overheat protection	Overcurrent protection	ON/OFF control	Low dissipation current at OFF-state	Variable output				Features
TO 220	PQxxNF1 series													2 power sources, 5V, 9V, 12V	69
	PQxxRA1 series													5V, 9V, 12V	74
	PQxxRB1 series												Overheat shut-down (⊕)	5V, 9V, 12V	79
	PQxxRD11 series													5V, 9V, 12V	83
	PQxxRF1 series													5/9/12V	86
	PQxxRF1V series												Output voltage minute adjustment	5V, 9V, 12V	86
	PQxxRF12 series													5.3/9.3/12.3V	93
	PQ05RF14													5.1V	98
	PQ15RF15 series													15.7V	102
	PQxxRG1 series												Reverse-voltage protection between input and output	5V, 9V, 12V	106
	PQ05RR1 series												Reset signal generation	5V	112
	PQ05RR12 series												Reset signal generation	5V	117
	PQxxRH1 series													5V, 9V, 12V	122
	PQxxRF2 series													5V, 9V, 12V, 15V	128
	PQxxRF2V series												Output voltage minute adjustment	5V, 9V, 12V, 15V	128
	PQ3RF23													3.3V	136
	PQ3RF33					(3.5A)								3.3V	136
	PQ3RF43					(4.6A)								3.3V	142
PQ30VR11												Overheat shut-down (⊕)	1.5 to 30V	146	
PQ30RV1 series													1.5 to 30V	150	
PQ30RV2 series													1.5 to 30V	150	
PQ30RV31													1.5 to 30V	158	
PQ7RV4					(4.6A)								1.5 to 7V	162	

xx stands for the value of output voltage shown in the right of this chart. (5V/5.3V:05, 9V/9.3V:09, 12V/12.3V:12, 15V:15)

⊕: available by additional circuit

⊕: TEMIC regulator

TEMIC is a trademark of the SHARP Corporation. A TEMIC consists of a temperature sensor and IC integrated onto a single chip.

Quick Reference Guide

Package	Model No	Output current		Functions				Output voltage	Page
		5A	10A	Overcurrent protection	Overcurrent protection	ON/OFF control	Variable output		
TO-3P	PQ3DF53							3.3V	167
	PQ7DV5							1.5 to 7V	171
	PQ7DV10							1.5 to 7V	175

■ Quick Reference Guide for Chopper Regulators

Package	Model No	Output current			Functions					Output voltage			Available for lead forming type	Available for tape-packaged products	Page		
		1.5A	2.5A	3.5A	Overheat protection	Overcurrent protection	ON/OFF control	Soft start	Variable output	Stepdown	Polarity inversion	Step-up					
SC-63	PQ1C71				○	○	○	○	○	○	○	○	126 to 35V	○ 1.26 to 30V		○	180
TO220	PQ1CF1				○	○	○	○	○	○	○	○	1.26 to 35V	○ 1.26 to 30V			186
	PQ1CF2												1.26 to 35V	1.26 to 30V			189
	*PQ2CF1													4.5 to 35V	○		192

△: available by additional circuit

*: Under development

■ Quick Reference Guide for Primary Regulators (※)

Package	Model No.	Output power			Drain current	Functions							Drain-source maximum voltage	Lead forming type	Page	
		30W	50W	100W		Overheat protection	Overheat shut-down	Overcurrent protection	ON/OFF control	Soft start	Prevention from low voltage malfunction	Overvoltage protection				
TO-220	PQ1PF1				4.5A	○	○	○	○	○	○	○	△	500V	○	196
	*PQ1PF2	○			3A	○	○	○	○	○	○	△	500V	○	210	
TO-3P	*PQ1PD1				8A	○						△	500V	○	212	

*: Under development

△: available by additional circuit

(※) Primary regulator is a trademark of SHARP Corporation.