SHARP

PQ1PF3/PQ2PF3 Primary Regulator for Switching Power Supply

FEATURES

- Five-terminal lead forming package (equivalent to TO-220)
- Built-in oscillation circuit (oscillation frequency: 100 kHz)
- Improved efficiency at low load, switching the oscillation frequency by external control signal
- Output for power supply 10 W class
- Built-in overheat protection, overcurrent protection, low voltage malfunction prevention function

DESCRIPTION

SHARP's PQ1PF3/PQ2PF3 are primary regulators for switching power supply. It reduces parts count and power loss of the switching section, by integrating a power MOS-FET and control IC into a single chip.

ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBO	RATING		UNIT
		P@1PF3	PQ2PF	UNII
Dhain-GND (source) voltage	DS	500	807	
Drain current	D	205	2A	
Power supply voltage ¹	V_{CC}	35/		
FB terminal input voltage ²	V_{FB}	4V		
CA terminal input current	CA	2A		m
Power dissipation ³	P _{D1}	1.75		
	P_{D2}	1 8 V		
Junction temperature ⁴	TD	16		0
Operating temperature	Т б р	- 2 0 to +8		0
Storage temperature	Tsū	- € 0 to +15		0
Soldering temperature	T\$o	2 6 0 (for 10s		0

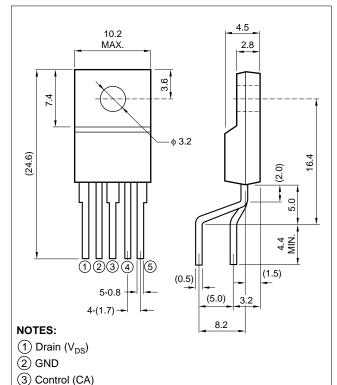
NOTES:

- 1. Voltage between V_{CC} terminal and GND terminal
- 2. Voltage between FB terminal and GND terminal
- 3. P_{D1}: No heat sink, P_{D2}: With infinite heat sink
- 4. Overheat protection may operate at Tj = 125°C to 150°C
- 5. $T_A = 25^{\circ}C$

The information for this document is from the Tec. PW970501, issued in 1997.

APPLICATIONS: DVD Notebook PC Set Top Box POS

OUTLINE DIMENSIONS

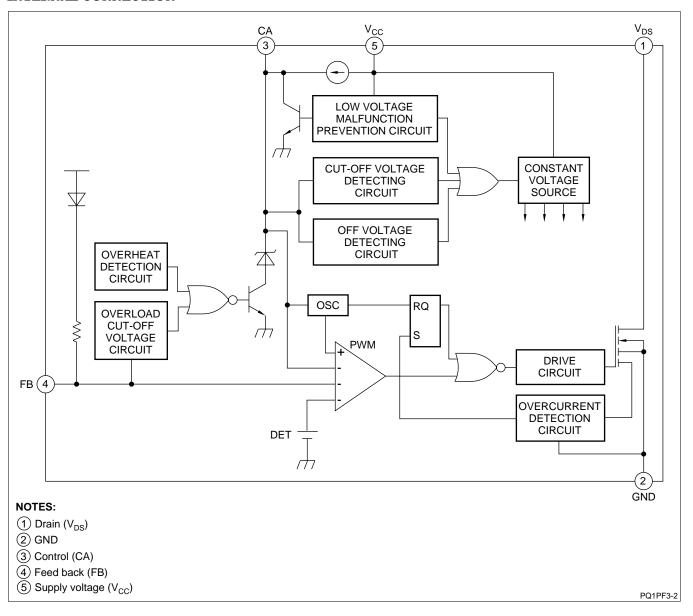


- (4) Feed back (FB)
- (1)
- Supply voltage (V_{CC})
 Dimensions are in mm.

PQ1PF3-1

PRODUCT INFORMATION SHARP

INTERNAL CONNECTION



PRODUCT INFORMATION SHARP ®

APPLICATION CIRCUIT (SWITCHING POWER SUPPLY

