



PXSR1-78xxS

PXSR-SERIES

Rev. 10-2016

- ✓ Non-Isolated
- ✓ **1 Ampere** / small case
- ✓ **Single** Output
- ✓ **SIP3** Case
- ✓ **Short Circuit Protection**
- ✓ High Efficiency up to 96%

The PXSR series is a family of cost effective switching regulators. These converters are in an ultra miniature SIP3 case. Devices are encapsulated (UL94V-0). High performance features: high efficiency operation, available from 1.2 to 15 VDC output.

All specifications typical at Ta=25°C, nominal input voltage and full load unless otherwise specified

Input Specifications

Voltage Range	See table
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Output Specifications

Voltage accuracy	±2%, max.
Line regulation (per 1% Vin change)	0.3%, max.
Load regulation (10% to 100%)	(1.2/1.5 Vout) 0.6%,max. (other output) 0.4%,max.
Ripple & noise (20 MHz bandwidth)	75 mV pk-pk, max.
Short circuit protection	Continuous (auto recovery)
Capacitor load (Test: min. Vin + const. load)	470uF
Transient response set time	250uS (50% load step)

General Specifications

Efficiency	Up to 96% (See table)
Switching Frequency	500 kHz
Humidity (rel.)	95%
MTBF (Calculated MIL-HDBK-217F)	>5 Mhrs

Environment / Physical Specifications

Operation Temp.	-40°C to 85°C
Storage	-55°C to 125°C
Cooling	Nature / Free Air
Case Material	Plastic (UL94V-0 rated)

Product Guide

Order #	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency Vin min. (%)	Efficiency Vin max. (%)
<u>SINGLE OUTPUT</u>					
PXSR1-781R2S	4.6-36	1.2	1000	74	62
PXSR1-781R5S	4.6-36	1.5	1000	78	65
PXSR1-781R8S	4.6-36	1.8	1000	82	69
PXSR1-782R5S	4.6-36	2.5	1000	87	75
PXSR1-783R3S	4.75-36	3.3	1000	91	78
PXSR1-7805S	6.5-36	5.0	1000	92	84
PXSR1-786R5S	9.0-36	6.5	1000	93	87
PXSR1-7809S	12-36	9.0	1000	95	90
PXSR1-7812S	15-36	12	1000	95	92
PXSR1-7815S	18-36	15	1000	96	94

If you need other specifications, please enquire.



Package / Pinning / Derating

Notes : All dimensions are typical in millimeters.
 1. Pin diameter: 0.5 ± 0.05 (0.02 ± 0.002)
 2. Pin pitch tolerance: ± 0.35 (± 0.014)
 3. Case Tolerance: ± 0.5 (± 0.02)

PIN CONNECTIONS	
#	SINGLE
1	+ Vin
2	GND
3	+ Vout

Application notes:

If the Input Voltage is higher than 32VDC - a capacitor is needed.

