



DC LED DRIVE

P/N:SR78XX-0.5 SERIES

Feature

- Efficiency up to 97%, Non isolated, no need for heatsinks.
- Very low profile(L*W*H=11.5*7.5*10.2).
- Wide input range.(4.75V ~ 30V).
- Short circuit protection, Thermal shutdown.
- Non standard outputs available as specials between 1.5V ~15.5V.
- Low ripple and noise.
- UL94V-0 Package Material.

Electrical Specifications @ 25°C					
Part Number	Input Range	Output Voltage	Output Current	Efficiency Min.	Vin Max. Vin
SIP3	(V)	(V)	(A)	(%)	(%)
SR783.3 - 0.5	4.75 - 30	3.3	0.5	91	81
SR785.0 - 0.5	6.5 - 30	5	0.5	94	86
SR786.5 - 0.5	9.0 - 30	6.5	0.5	95	88
SR789.0 - 0.5	11 - 30	9	0.5	96	92
SR7812 - 0.5	15 - 30	12	0.5	97	94
SR7815 - 0.5	18 - 30	15	0.5	97	95

Characteristics	Conditions	Min.	Typ.	Max.
Input Voltage Range	3.3V 5V to 15.5V	4.75 6.5		30.0 V 30.0 V
Output Voltage Range (for customized parts)	All Series	1.5		15.5 V
Output Current	All Series	0		500mA
Output Current Limit	All Series		10	2000mA
Short Circuit Input Current	All Series			20mA
Internal Power Dissipation				0.4W
Short Circuit Protection				Continuous, automatic recovery
Output Voltage Accuracy(At 100% Load)	All Series		± 2	± 3%
Line Voltage Regulation	3.3V to 6.5V		0.2	0.4%
(Vin=min. to max. at full load)	9V to 15.5V		0.1	0.2%
Load Regulation(10 to 100% full load)	3.3V to 6.5V		0.4	0.6%
	9V to 15.5V		0.25	0.4%
Dynamic Load Stability	100% <-> 50% load 100% <-> 10% load		±75mA	±100mV
Ripple & Noise(without Output Capacitor)	3.3V to 6.5V 9V to 15.5V		20m Vp-p 30m Vp-p	30m Vp-p 40m Vp-p
Ripple & Noise (with Output Capacitor =100uF)	3.3V to 6.5V 9V to 15.5V		15m Vp-p 25m Vp-p	20m Vp-p 35m Vp-p
Temperature Coefficient	-40 ? ~ + 85 ? ambient			0.015% / ?
Max capacitance Load				220uF
Switching Frequency		280	330	380KHz
Quiescent Current	Vin = min. to max. at 0% load		5	7m A

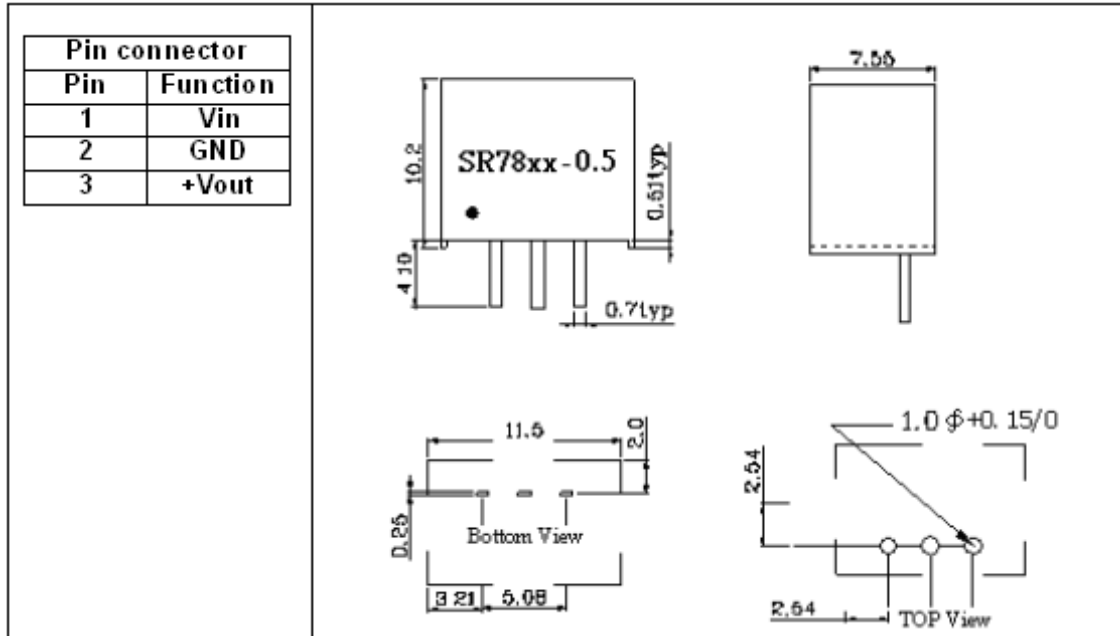
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Mechanical



Units: mm.

Tolerance: ± 0.25 unless specified otherwise.

NOTE:

Datasheet Change History:

V0	2008/Jan.	Datasheet Set Up

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