

TECHNICAL DATA DATA SHEET 891, REV. A Formerly part number SHD51923

FIXED NEGATIVE 1.5 AMP 15 VOLT REGULATOR

FEATURES:

- CERAMIC HERMETIC PACKAGE
- SIMILAR to INDUSTRY TYPE 7915

MAXIMUM RATINGS

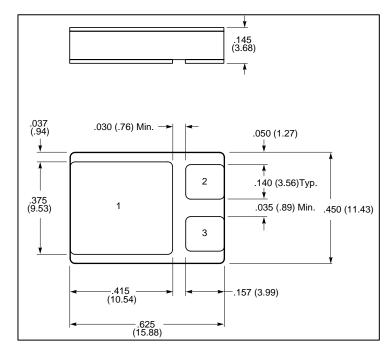
All ratings are at $T_C = 25^{\circ}C$ unless otherwise specified.

Parameter	Conditions		Maximum	Units
Input Voltage	$V_0 = 15V$	-	35	Vdc
Ambient Operating	-	-	-55 to +150	°C
Temperature Range				
(T _A)				
Storage Temperature Range	-	-	-65 to +150	°C
Thermal Resistance	-	-	4.2	°C/W
(R _{θJC})				
Rated Power	$T_c = +25^{\circ}C$	-	30	W

ELECTRICAL CHARACTERISTICS

Symbo I	Parameter	Conditions	Min.	Тур.	Max.	Units
Vo	Output Voltage	$T_J = 25^{\circ}C$	-15.15	-15.0	-14.85	V
		$5 \text{ mA} \le I_0 \le 1\text{A}$ $P \le 15\text{W}$	-15.75		-14.25	V
V _{RLINE}	Line Regulation	$T_J = 25^{\circ}C, V_{IN} = -17.5V \text{ to } -30V$	-	5.0	25	mV
		V _{IN} = -20V to -26V	-	3.0	15	mV
V _{RLOAD}	Load Regulation	$T_J = 25^{\circ}C$				
		$5 \text{ mA} \le I_0 \le 1.5 \text{A}$	-	-	35	mV
		$250 \text{ mA} \leq I_O \leq 750 \text{mA}$	-	-	21	mV
lq	Quiescent Current	$T_J = 25^{\circ}C$	-	-	6.0	mA
ΔI_Q	Quiescent Current	With Line	-	-	0.8	mA
	Change	With Load, 5 mA $\leq I_0 \leq 1A$	-	-	0.5	mA
V _{DO}	Dropout Voltage	T _J = 25 °C, I _O = 1A	-	-	2.5	V
I _{OMAX}	Peak Output Current	T _J = 25	1.5	-	3.3	A
I _{OS}	Short Circuit Current		-	-	1.2 2.8	A
$\Delta V_{IN} \Delta V_{OUT}$	Ripple Rejection	f = 120Hz	54	70	-	dB
N _O	Output Noise Voltage	$T_A = 25^{\circ}C$, f = 10Hz \leq f \leq 100kHz	-	375	-	μV rms
$\frac{\Delta V_{OUT}}{\Delta t}$	Long Term Stability	$T_{c} = 25^{\circ}C$, t=1000 hours	-	-	150	mV

Note: Conditions unless otherwise noted: I_{OUT} = 500 mA, C_{IN} = 2.2 μ F, C_{OUT} = 1 μ f, 0°C \leq T_J \leq +125°C, Power Dissipation = 1.5W.



MECHANICAL DIMENSIONS: In inches / mm

LCC-3P

PINOUT TABLE

ТҮРЕ	PIN 1	PIN 2	PIN 3
LCC-3P, -15V Regulator	V _{IN}	GROUND	VOUT

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