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°C unless otherwise specified.

Parameter	Conditions		Maximum	Units
Input Voltage	V_O = 15V	-	35	Vdc
Ambient Operating Temperature Range (T_A)	-	-	-55 to +150	°C
Storage Temperature Range	-	-	-65 to +150	°C
Thermal Resistance ($R_{\theta JC}$)	-	-	4.2	°C/W
Rated Power	T_C = +25°C	-	30	W

ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Conditions		Min.	Typ.	Max.	Units
V_O	Output Voltage	T_J = 25°C		-15.15	-15.0	-14.85	V
		5 mA ≤ I_O ≤ 1A P ≤ 15W		-15.75		-14.25	V
V_{RLINE}	Line Regulation	T_J = 25°C, V_{IN} = -17.5V to -30V		-	5.0	25	mV
		V_{IN} = -20V to -26V		-	3.0	15	mV
V_{RLOAD}	Load Regulation	T_J = 25°C					
		5 mA ≤ I_O ≤ 1.5A		-	-	35	mV
		250 mA ≤ I_O ≤ 750mA		-	-	21	mV
I_Q	Quiescent Current	T_J = 25°C		-	-	6.0	mA
ΔI_Q	Quiescent Current Change	With Line		-	-	0.8	mA
		With Load, 5 mA ≤ I_O ≤ 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	V_{IN} = -35V	T_C = 25 °C	-	-	1.2	A
			-55°C ≤ T_C ≤ +125°C			2.8	
$\frac{\Delta V_{IN}}{\Delta V_{OUT}}$	Ripple Rejection	f = 120Hz		54	70	-	dB
N_O	Output Noise Voltage	T_A = 25°C, f = 10Hz ≤ f ≤ 100kHz		-	375	-	µV rms
$\frac{\Delta V_{OUT}}{\Delta t}$	Long Term Stability	T_C = 25°C, t=1000 hours		-	-	150	mV

Note: Conditions unless otherwise noted: I_{OUT} = 500 mA, C_{IN} = 2.2 µF, C_{OUT} = 1µf, 0°C ≤ T_J ≤ +125°C, Power Dissipation = 1.5W.

SENSITRON
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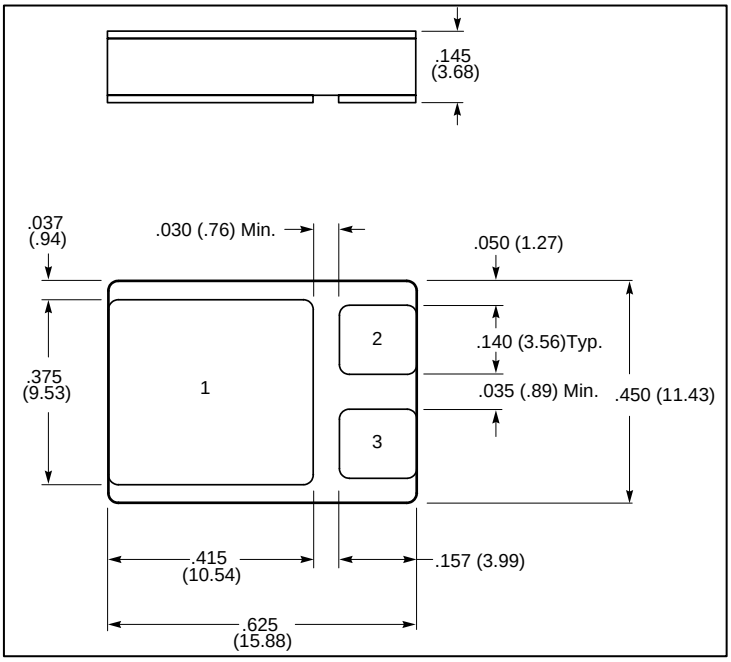
MECHANICAL DIMENSIONS: In inches / mm



LCC-3P

PINOUT TABLE

TYPE	PIN 1	PIN 2	PIN 3
LCC-3P, -15V Regulator	V_{IN}	GROUND	V_{OUT}