

TECHNICAL DATA
DATA SHEET 4058, REV. B
Formerly part number SHD51921

FIXED NEGATIVE 5.0 VOLT 1.5A REGULATOR

FEATURES:

- **FIXED VOLTAGE REGULATOR IN A CERAMIC HERMETIC PACKAGE.**
- **SIMILAR to INDUSTRY TYPE 7905A**

MAXIMUM RATINGS

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

Parameter	Conditions	Minimum	Maximum	Units
Input Voltage	-	-	35	Vdc
Ambient Operating Temperature Range (T_A)	-	-	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	-	-	-65 to +150	$^\circ\text{C}$
Thermal Resistance ($R\theta_{JC}$)	-	-	3.0	$^\circ\text{C/W}$
Rated Power	$T_C = +25^\circ\text{C}$	-	15	W

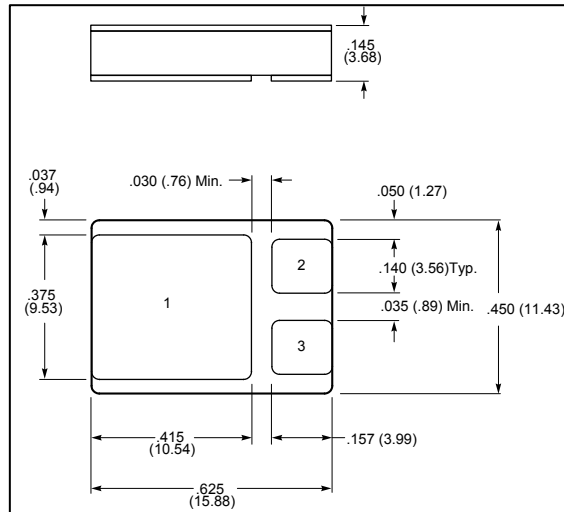
ELECTRICAL CHARACTERISTICS

Parameter	Conditions	Minimum	Maximum	Units
Output Voltage (V_{OUT})	$T_A = 25^\circ\text{C}$	-4.95	-5.05	V
	$V_{IN} = -7.5\text{V to } -20\text{V}$ $-55^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$	-4.85	-5.15	V
Line Regulation (V_{RLINE})	$V_{IN} = -7.5\text{V to } -20\text{V}$ $-55^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$	-	12 25	mV
	$V_{IN} = -8.0\text{V to } -12\text{V}$ $-55^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$	-	5.0 12	mV
Load Regulation (V_{RLOAD})	$I_O = 5.0\text{ mA to } 1.0\text{ A}$ $-55^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$	-	20 25	mV
	$I_O = 250\text{ mA to } 750\text{ mA}$ $-55^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$	-	15 30	mV
Standby Current Drain (I_{SCD})	-	-	2.5 3.0	mA
Standby Current Drain Change With Line (ΔI_{SCD} (Line))	$V_{IN} = 7.5\text{V to } 20\text{V}$	-	0.4	mA
Standby Current Drain Change With Load (ΔI_{SCD} (Load))	$I_O = 5.0\text{ mA to } 1000\text{mA}$	-	0.4	mA
Dropout Voltage V_{DO}	$\Delta V_{OUT} = 100\text{mV}$, $I_O = 1.0\text{A}$	-	2.5	V
Short Circuit Current I_{DS}	$V_{IN} = -35\text{V}$, Maximum assured short circuit protection $-55\text{ to } +150$	-	1.2 2.8	A A
Ripple Rejection $\frac{\Delta V_{IN}}{\Delta V_{OUT}}$	$f = 120\text{ Hz}$, $\Delta V_{IN} = -10\text{V}$	66	-	dB
	If not tested, shall be guaranteed to the spec limits $-55\text{ to } +125$	60	-	dB
Output Noise Voltage N_O If not tested, shall be guaranteed to the spec limits	$T_A = 25^\circ\text{C}$, $f = 10\text{Hz to } 100\text{kHz}$	-	40	$\mu\text{V/V}$ RMS
Long Term Stability $\frac{\Delta V_{OUT}}{\Delta t}$ If not tested, shall be guaranteed to the spec limits	$T_A = 25^\circ\text{C}$, $t = 1000\text{ hrs.}$	-	75	mV

Note: Output Voltage tolerance; +/- 1% @ 25°C , +/- 2% from -55° to $+80^\circ\text{C}$

SENSITRON SEMICONDUCTOR
DATA SHEET 4058, REV. A

MECHANICAL DIMENSIONS: in Inches / mm



LCC-3P

PINOUT TABLE

TYPE	PIN 1	PIN 2	PIN 3
LCC-3P, - 5V Regulator	V _{IN}	GROUND	V _{OUT}

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