

TECHNICAL DATA
DATA SHEET 4058, REV. C.1
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	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

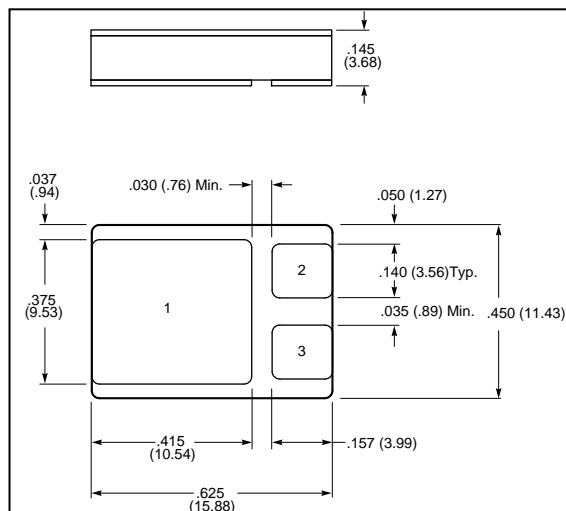
ELECTRICAL CHARACTERISTICS

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	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	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	mV
	$I_O = 250\text{ mA to } 750\text{ mA}$ $-55^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$	-	15	mV
Standby Current Drain (I_{SCD})	-	-	8.0	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	A
		-	2.8	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 $-55^\circ\text{ to } +80^\circ\text{C}$

SENSITRON

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MECHANICAL DIMENSIONS: in Inches / mm**SMD-1****PINOUT TABLE**

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

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