

TECHNICAL DATA
DATA SHEET 4061, REV. B.1

FIXED POSITIVE 5.0 VOLT 1.5A REGULATOR

FEATURES:

- **FIXED VOLTAGE REGULATOR IN A CERAMIC HERMETIC PACKAGE**
- **SIMILAR to INDUSTRY TYPE 7805A**

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 +125	$^\circ\text{C}$
Storage Temperature Range	-	-65 to +150	$^\circ\text{C}$
Thermal Resistance ($R\theta_{JC}$)	-	4.2	$^\circ\text{C}/\text{W}$
Rated Power	$T_C = +25^\circ\text{C}$	20	W

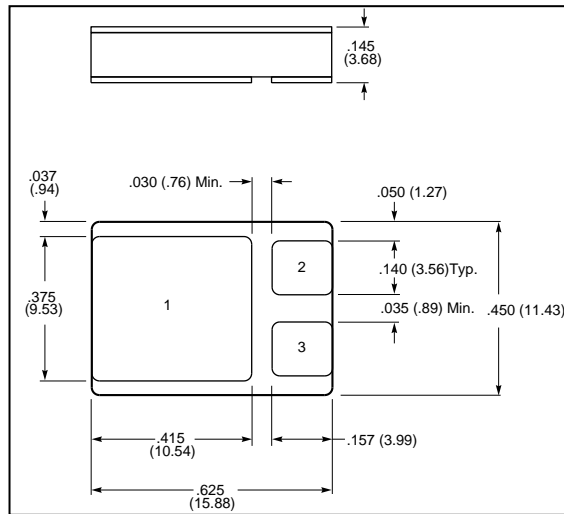
ELECTRICAL CHARACTERISTICS

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

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})	$V_{IN} = 7.5\text{V to }20\text{V}$ $-55^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$	-	5.0 12	mV
	$V_{IN} = 8.0\text{V to }12\text{V}$ $-55^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$	-	4.0 10	mV
Load Regulation (V_{RLOAD})	$I_O = 5.0\text{ mA to }1.0\text{ A}$ $-55^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$	-	12 25	mV
	$I_O = 250\text{ mA to }750\text{ mA}$ $-55^\circ\text{C} \leq T_A \leq +125^\circ\text{C}$	-	6 15	mV
Standby Current Drain (I_{SCD})	-	-	6.0 6.5	mA
Standby Current Drain Change With Line (ΔI_{SCD} (Line))	$V_{IN} = 7.5\text{V to }20\text{V}$	-	0.8	mA
Standby Current Drain Change With Load (ΔI_{SCD} (Load))	$I_O = 5.0\text{ mA to }1000\text{mA}$	-	0.5	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	-	1.2	A
Ripple Rejection ¹	$f = 120\text{ Hz}, \Delta V_{IN} = 10\text{V}$	66	-	dB
	ΔV_{OUT} $-55^\circ\text{C to }+125^\circ\text{C}$	60	-	dB
Output Noise Voltage ¹ (N_O)	$T_A = 25^\circ\text{C}, f = 10\text{Hz to }100\text{kHz}$	-	40	$\mu\text{V}/\text{V RMS}$
Long Term Stability ¹ ($\frac{\Delta V_{OUT}}{\Delta t}$)	$T_A = 25^\circ\text{C}, t = 1000\text{ hrs.}$	-	75	mV

¹Guaranteed, not tested in production

MECHANICAL DIMENSIONS: In Inches / mm



SMD-1

PINOUT TABLE

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

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