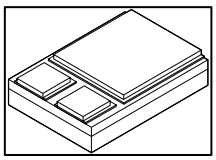
TECHNICAL DATA
DATA SHEET 1073, REV. –
FORMERLY SHD51910

POSITIVE ADJUSTABLE 1.5 AMP REGULATOR



FEATURES:

- **ISOLATED HERMETIC PACKAGE**
- **SIMILAR to INDUSTRY TYPE LM117**
- **Add Suffix "S" for S-100 Screening**

MAXIMUM RATINGS

All ratings are at T_A = 25°C unless otherwise specified.

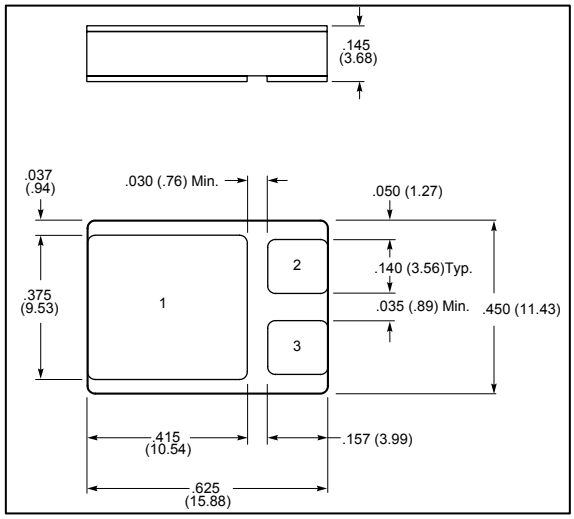
Parameter	Conditions	Typical	Limit	Units
Output Current I_{OUT}	-	-	1.5	A
Input to Output Voltage Differential	-	-	40	Vdc
Storage Temperature Range	-	-	-65 to +150	°C
Lead Temperature	Soldering, 10 seconds	-	+300	°C
Power Dissipation (P_D)	-	-	Internally Limited	W
Maximum Thermal Resistance Junction to Case (θ_{JC})	-	-	3.5	°C/W
Junction Temp. (T_J)	-	-	+150	°C
Ambient Operating Temperature Range (T_A)	Recommended Conditions	-	-55 to +125	°C

ELECTRICAL CHARACTERISTICS

Parameter	Conditions	Min	Typ.	Limit	Units
Reference Voltage	$3.0V \le V_{IN} - V_{OUT} \le 40V$ $10\ mA \le I_{OUT} \le I_{MAX}\ P \le P_{MAX}$ T_A = +25°C	1.225	1.250	1.270	V
Line Regulation	$3.0V \le V_{IN} - V_{OUT} \le 40V$ I_{OUT} = 10mA	-	.01	0.02	%/V
Load Regulation	$10mA \le I_{OUT} \le I_{MAX}$	-	0.3	1.0	mV%
Adjust Pin Current	-	-	50	100	µA
Adjust Pin Current Change	$10mA \le I_{OUT} \le I_{MAX}$ $3.0V \le V_{IN} - V_{OUT} \le 40V$	-	0.2	5.0	µA
Minimum Load Current	$V_{IN} - V_{OUT}$ = 40V	-	3.5	5.0	mA
Current Limit	$V_{IN} - V_{OUT} \le 15V$	1.5	2.2	3.4	A
Temperature Stability	$-55°C \le T_J \le +125°C$	-	1.0	-	%
Ripple Rejection Ratio	V_{OUT} = 10V, f = 120Hz, C_{ADJ} = 0µF V_{OUT} = 10V, f = 120Hz, C_{ADJ} = 10µF	66	65 80	-	dB
Thermal Regulation	20 ms pulse, T_A = 25°	-	.03	0.07	%/W
Long Term Stability	T_J = +125°C, t = 1,000hrs	-	0.3	1.0	%

SENSITRON
DATASHEET 1073
REVISION -

MECHANICAL DIMENSIONS in inches & mm



LCC-3P

PINOUT TABLE

TYPE	PIN 1	PIN 2	PIN 3
LCC-3P, 1.5A Regulator	V_{OUT}	ADJUST	V_{IN}