TECHNICAL DATA
DATA SHEET 840, REV. C
Formerly part number SHD52611

POSITIVE ADJUSTABLE 1.5 AMP REGULATOR

FEATURES:

- **ISOLATED HERMETIC PACKAGE**
- **SIMILAR to INDUSTRY TYPE LM117HV**
- **Add Suffix "S" for S-100 Screening**

MAXIMUM RATINGS

All ratings are at -55°C ≤ T_A ≤ +125°C unless otherwise specified.

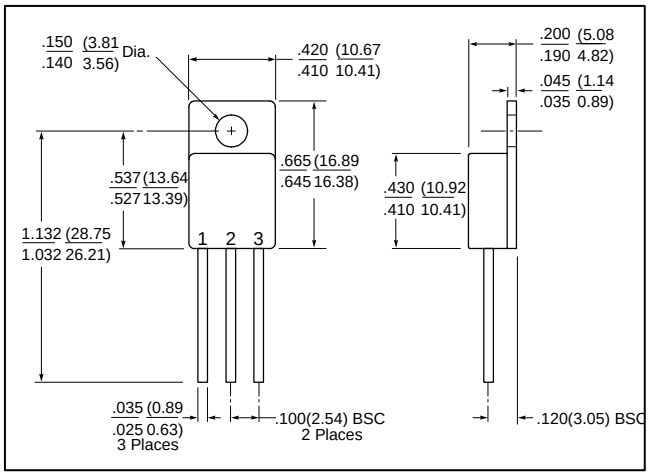
Parameter	Conditions	Typical	Limit	Units
Output Current I_{OUT}	-	-	1.5	A
Input to Output Voltage Differential	-	-	+60, -0.3	Vdc
Storage Temperature Range	-	-	-65 to +150	°C
Lead Temperature	Soldering, 10 seconds	-	+300	°C
Power Dissipation (P_D)	-	-	Internally Limited	
Maximum Thermal Resistance Junction to Case (θ_{JC})	-	-	4.2	°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 ≤ (V_{IN} - V_{Out}) ≤ 60V 10 mA ≤ I_{OUT} ≤ I_{MAX} P ≤ P_{MAX}	1.20	1.250	1.30	V
Line Regulation	3.0V ≤ (V_{IN} - V_{OUT}) ≤ 60V I_L = 10mA	-	0.02	0.05	%/V
Load Regulation	10mA ≤ I_{OUT} ≤ $I_{MAX.}$ T_J = +25°C	-	0.3	1.0	%
Adjust Pin Current	-	-	50	100	µA
Adjust Pin Current Change	10mA ≤ I_{OUT} ≤ I_{MAX} 3.0V ≤ (V_{IN} - V_{OUT}) ≤ 60V	-	0.2	5.0	µA
Minimum Load Current	(V_{IN} - V_{OUT}) = 60V	-	3.5	7.0	mA
Current Limit	(V_{IN} - V_{OUT}) ≤ 15V	1.5	2.2	3.5	A
Temperature Stability	T_{MIN} ≤ T_J ≤ T_{MAX}	-	1.0	-	%
Ripple Rejection Ratio	V_{OUT} = 10V, f = 120Hz, C_{ADJ} = 10µF	66	65 80	-	dB
Thermal Regulation	20 ms pulse, T_J = 25°	-	0.03	0.07	%/W
Long Term Stability	T_J = +125°C, t = 1,000hrs	-	0.3	1.0	%

SENSITRON
DATASHEET 840
REVISION C

MECHANICAL DIMENSIONS in inches & mm



TO-257

PINOUT TABLE

TYPE	PIN 1	PIN 2	PIN 3
TO - 257, 1.5A Regulator	ADJUST	V_{OUT}	V_{IN}