

TECHNICAL DATA DATA SHEET 843, REV. A Formerly part number SHD52613

NEGATIVE ADJUSTABLE 1.5 AMP REGULATOR

FEATURES:

- ISOLATED HERMETIC PACKAGE
- SIMILAR to INDUSTRY TYPE LM137HV
- Add Suffix "S" for S-100 Screening

MAXIMUM RATINGS

All ratings are at $-55^{\circ}C \le T_A \le +125^{\circ}C$ unless otherwise specified.

Parameter	Conditions	Typical	Limit	Units
Output Current I _{OUT}	-	-	1.5	Α
Input to Output Voltage Differential	-	•	50	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

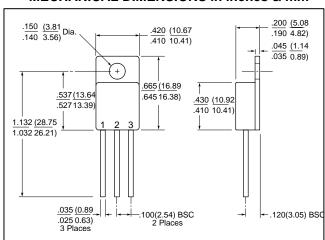
Parameter	Conditions	Min	Тур.	Limit	Units
Reference Voltage	$T_J = +25^{\circ}C$ $3.0V \le V_{IN} - V_{OUT} \le 50V$ $10 \text{ mA} \le I_{OUT} \le I_{MAX} P \le P_{MAX}$	-1.225 -1.200	-1.250 -1.250	-1.275 -1.300	V
Line Regulation	$3.0V \le V_{IN} - V_{OUT} \le 50V$ $I_{L} = 10\text{mA}$	-	0.02	0.05	%/V
Load Regulation	$10\text{mA} \le I_{\text{OUT}} \le I_{\text{MAX}}$. $T_{\text{J}} = +25^{\circ}\text{C}$	-	0.3	1.0	%
Adjust Pin Current	-	-	65	100	μА
Adjust Pin Current Change	$10\text{mA} \le I_L \le I_{\text{MAX}}$ $3.0\text{V} \le V_{\text{IN}} - V_{\text{OUT}} \le 50\text{V}$ $T_{\text{J}} = +25^{\circ}\text{C}$	-	2.0 4.0	5.0 6.0	μА
Minimum Load Current	V _{IN} - V _{OUT} = 50V V _{IN} - V _{OUT} = 10V	-	2.5 1.2	5.0 3.0	mA
Current Limit	V _{IN} - V _{OUT} =13V V _{IN} - V _{OUT} =50V	1.5 0.2	2.2 0.4	3.2 0.8	A
Temperature Stability	$T_{MIN} \le T_J \le T_{MAX}$	-	0.6	-	%
Ripple Rejection Ratio	$V_{OUT} = -10V, f = 120Hz,$ $C_{ADJ} = 10\mu F$	66	60 77	-	dB
Thermal Regulation	10 ms pulse, T __ = 25°	-	0.002	0.02	%/W
Long Term Stability	$T_J = +125^{\circ}C$, $t = 1,000$ hrs	-	0.3	1.0	%

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DATASHEET 843 REVISION A

MECHANICAL DIMENSIONS in inches & mm



TO-257

PINOUT TABLE

TYPE	PIN 1	PIN 2	PIN 3
TO - 257, 1.5A Regulator	ADJUST	V _{IN}	Vout

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