

TECHNICAL DATA
DATA SHEET 4017, REV. –

**POSITIVE ADJUSTABLE
1.5 AMP REGULATOR**

FEATURES:

- ISOLATED HERMETIC PACKAGE (TO-257)
- SIMILAR to INDUSTRY TYPE LM117A
- Add Suffix “S” for S-100 Screening

MAXIMUM RATINGS

All ratings are at $T_A = 25^\circ\text{C}$ 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	$^\circ\text{C}$
Lead Temperature	Soldering, 10 seconds	-	+300	$^\circ\text{C}$
Power Dissipation (P_D)	-	-	Internally Limited	W
Maximum Thermal Resistance Junction to Case (θ_{JC})	-	-	3.5	$^\circ\text{C/W}$
Junction Temp. (T_J)	-	-	+150	$^\circ\text{C}$
Ambient Operating Temperature Range (T_A)	Recommended Conditions	-	-55 to +125	$^\circ\text{C}$

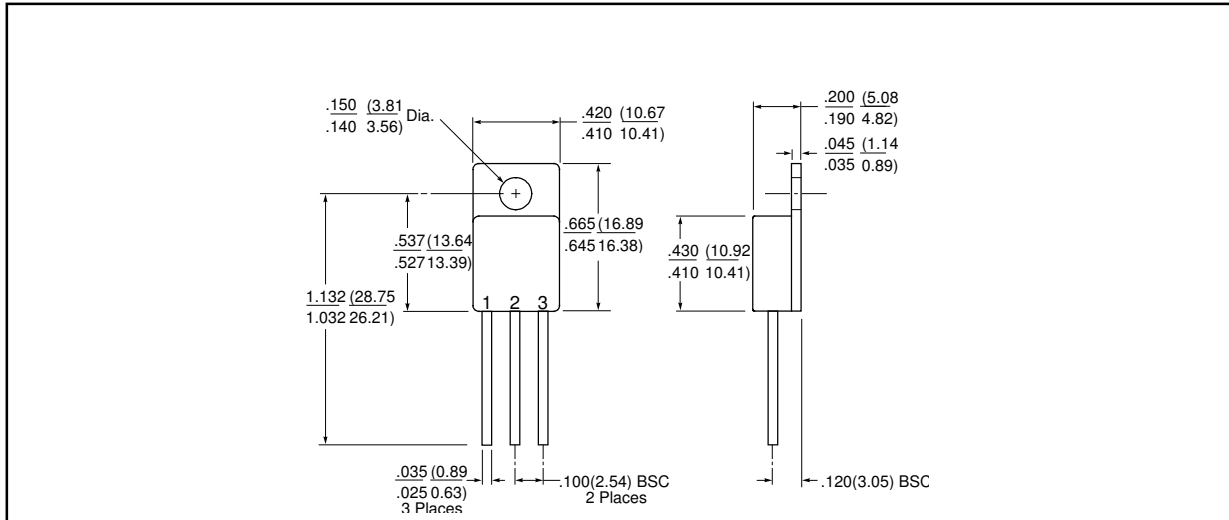
ELECTRICAL CHARACTERISTICS

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

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MECHANICAL DIMENSIONS in inches & mm

TO-257



PINOUT TABLE

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

TECHNICAL DATA

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