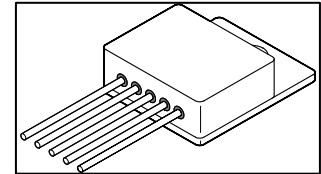


TECHNICAL DATA
DATA SHEET 4054, REV. -

**LOW DROP OUT POSITIVE ADJUSTABLE
VOLTAGE REGULATOR**



DESCRIPTION: 3A, VERY LOW DROPOUT ADJUSTABLE POSITIVE REGULATOR

FEATURES:

- LOW DROPOUT, 340mV at 3A Output Current
- FAST RESPONSE
- REMOTE SENSE OPTION (-A)
- REMOTE SHUTDOWN
- ELECTRICALLY EQUIVALENT TO LT1764A
- FIVE TERMINAL MO-078 HERMETIC PACKAGE

ABSOLUTE MAXIMUM RATINGS

PARAMETER	MIN	TYP	MAX	UNIT
INPUT VOLTAGE V_{IN} , V_{OUT} , SD	-	-	20	V
INPUT VOLTAGE V_{SENSE}	-	-	7	V
INPUT – OUTPUT DIFFERENTIAL VOLTAGE	-	-	20	V
POWER DISSIPATION $T_c = 25^\circ\text{C}$	-	-	20	W
THERMAL RESISTANCE $R_{th} (j-c)$	-	-	6.5	$^\circ\text{C} / \text{W}$
STORAGE TEMPERATURE RANGE	-65	-	150	$^\circ\text{C}$
OPERATING JUNCTION TEMPERATURE RANGE				$^\circ\text{C}$
CONTROL SECTION	-40	-	125	
POWER TRANSISTOR SECTION	-40	-	150	

SENSITRON

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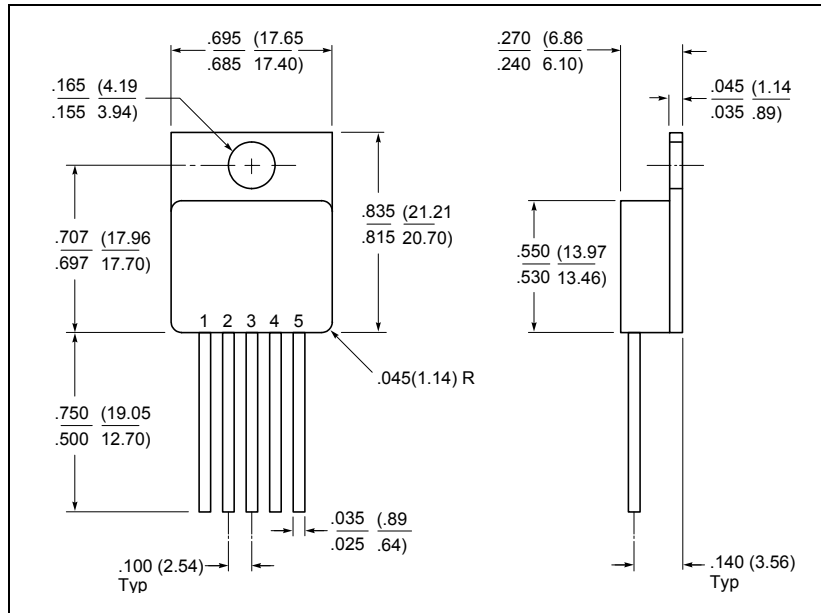
ELECTRICAL CHARACTERISTICS (AT $T_C=25^{\circ}\text{C}$, V_{SENSE} NOT CONECTED UNLESS OTHERWISE SPECIFIED)

PARAMETER	MIN	TYP	MAX	UNIT
OUTPUT VOLTAGE $V_{\text{IN}}=3.3\text{V}$, $I_{\text{O}}=3\text{A}$ $T_C=25^{\circ}\text{C}$	2.462	2.500	2.538	V
$T_C=-55^{\circ}\text{C}$ to 125°C	2.412	2.500	2.575	V
LINE REGULATION $V_{\text{IN}}=3\text{V}$ to 20V , $I_{\text{O}}=1\text{mA}$ $T_C=-55^{\circ}\text{C}$ to 125°C	-	4	10	mV
LOAD REGULATION $V_{\text{IN}}=3.5\text{V}$, $I_{\text{O}}=1\text{mA}$ to 3A $T_C=25^{\circ}\text{C}$	-	4	10	mV
$T_C=-55^{\circ}\text{C}$ to 125°C	-	-	30	mV
DROP OUT VOLTAGE $I_{\text{O}}=3\text{A}$ $T_C=25^{\circ}\text{C}$	-	0.34	0.45	V
$T_C=-55^{\circ}\text{C}$ to 125°C	-	-	0.66	V
CURRENT LIMIT $V_{\text{IN}}=3.5\text{V}$, $V_{\text{OUT DROP}}=0.1\text{V}$, $T_C=-55^{\circ}\text{C}$ to 125°C	3.1	-	-	A
RIPPLE REJECTION $V_{\text{IN}}=4\text{V}$, $I_{\text{O}}=1.5\text{A}$, $f=120\text{Hz}$, $V_{\text{RIPPLE}}=0.5V_{\text{P-P}}$	55	63	-	dB
SHUTDOWN PIN CURRENT $V_{\text{SHDN}}=0\text{V}$	-	0.01	1	μA
$V_{\text{SHDN}}=20\text{V}$	-	7	30	μA
SHUTDOWN PIN THRESHOLD $V_{\text{OUT}}=\text{OFF}$ to ON	-	0.9	2	V
$V_{\text{OUT}}=\text{ON}$ to OFF	0.25	0.75	-	V
OUTPUT VOLTAGE NOISE $C_{\text{OUT}}=10\mu\text{F}$, $I_{\text{O}}=3\text{A}$, BW = 10 Hz to 100 KHz	-	40	-	μV_{RMS}

SENSITRON

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MECHANICAL DIMENSIONS: In inches / mm



MO-078

PIN CONFIGURATION

PART	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5
SHD501355	V _{IN}	GND	V _{OUT}	SHUTDOWN	NO CONNECTION
SHD501355A	V _{IN}	GND	V _{OUT}	SHUTDOWN	REMOTE SENSE

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