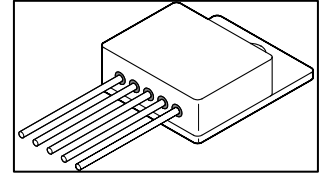


TECHNICAL DATA
DATA SHEET 4054, REV. -

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 $T_c = 25^{\circ}C$	-	-	20	W
THERMAL RESISTANCE R_{th} (j-c)	-	-	6.5	$^{\circ}C / W$
STORAGE TEMPERATURE RANGE	-65	-	150	$^{\circ}C$
OPERATING JUNCTION TEMPERATURE RANGE				$^{\circ}C$
CONTROL SECTION	-40	-	125	
POWER TRANSISTOR SECTION	-40		150	

SENSITRON

TECHNICAL DATA

DATA SHEET 4054, REV. -

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

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

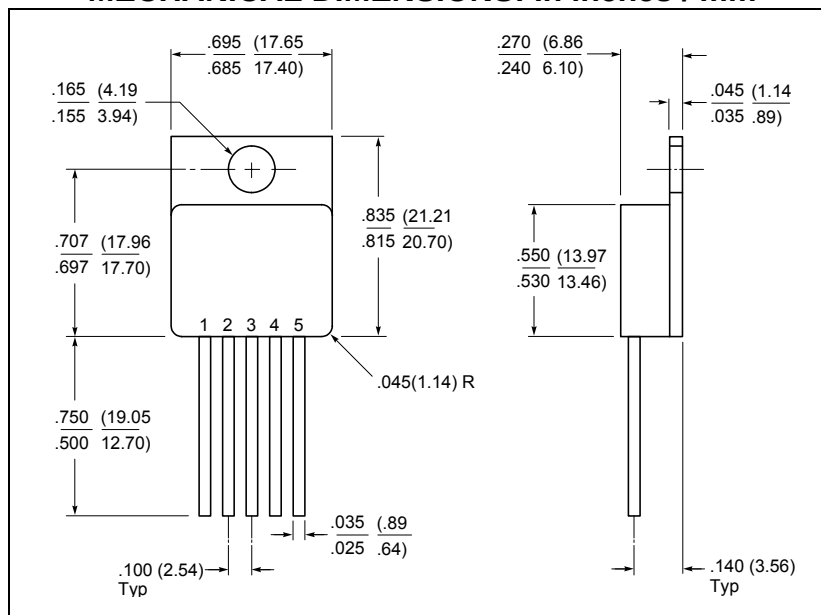
SENSITRON

TECHNICAL DATA

DATA SHEET 4054, REV. -

SHD501355
SHD501355A

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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