

TECHNICAL DATA
DATA SHEET 5285, Rev A

POSITIVE ADJUSTABLE 3.0 AMP REGULATOR

FEATURES:

- ISOLATED HERMETIC PACKAGE (TO-257)
- SIMILAR to INDUSTRY TYPE LM150A
- Add Suffix "S" for S-100 Screening

MAXIMUM RATINGS

Parameter	Conditions	Typical	Limit	Units
Input to Output Voltage Differential			35	Vdc
Storage Temperature Range			-65 to +150	°C
Power Dissipation (P _D)			Internally Limited	W
Maximum Thermal Resistance Junction to Case (θ _{JC})			4.2	°C/W
Operating Junction Temperature Range (T _J)			-55 to +150	°C

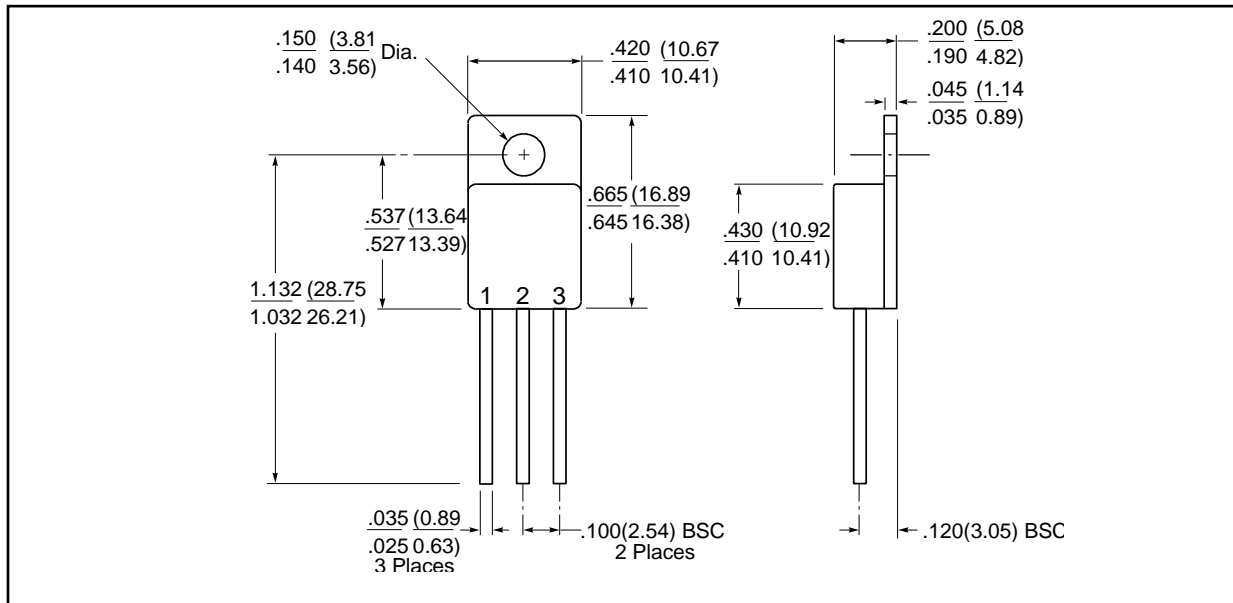
ELECTRICAL CHARACTERISTICS -55°C ≤ T_a ≤ 125°C unless otherwise specified

Parameter	Conditions	Min	Typ.	Limit	Units
Reference Voltage	I _{OUT} = 10mA, T _a = 25°C 3.0V ≤ V _{IN} - V _{OUT} ≤ 35V, 10mA ≤ I _{OUT} ≤ 3.0A, P ≤ 30W T _A = +25°C	1.238 1.225		1.262 1.270	V
Line Regulation	3.0V ≤ V _{IN} - V _{OUT} ≤ 35V, I _{OUT} = 10mA, T _J = 25°C 3.0V ≤ V _{IN} - V _{OUT} ≤ 35V, I _{OUT} = 10mA			.01 .05	%/V
Load Regulation	10mA ≤ I _{OUT} ≤ 3.0A 10mA ≤ I _{OUT} ≤ 3.0A, T _J = +25°C			1 0.3	% %
Adjust Pin Current				100	μA
Adjust Pin Current Change	10mA ≤ I _{OUT} ≤ 3.0A 3.0V ≤ V _{IN} - V _{OUT} ≤ 35V			5	μA
Minimum Load Current	V _{IN} - V _{OUT} = 35V			5.0	mA
Current Limit	V _{IN} - V _{OUT} ≤ 10V V _{IN} - V _{OUT} = 30V	3.0 0.3			A A
Ripple Rejection Ratio	V _{OUT} = 10V, f = 120Hz, C _{ADJ} = 10μF	66			dB
Thermal Regulation	20 ms pulse, T _A = 25°			0.01	%/W

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MECHANICAL DIMENSIONS in inches & mm

TO-257



PINOUT TABLE

TYPE	PIN 1	PIN 2	PIN 3	TAB
TO – 257 3.0A Adjustable Regulator	ADJUST	V _{OUT}	V _{IN}	ISOLATED

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