TECHNICAL DATA
DATA SHEET 4021, REV. A

LOW DROP NEGATIVE 5V 1.0 AMP REGULATOR

FEATURES:

- **ISOLATED HERMETIC PACKAGE**
- **SIMILAR to INDUSTRY TYPE LM2990-5**

MAXIMUM RATINGS

All ratings are at T_A = 25°C unless otherwise specified.

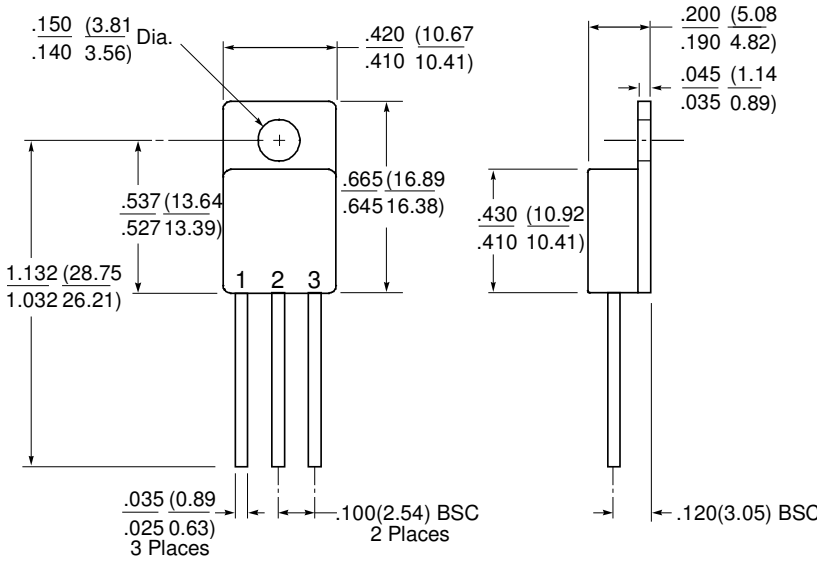
Parameter	Conditions	Typical	Limit	Units
Input to Output Voltage Differential	-	-	-26.0	Vdc
Storage Temperature Range	-	-	-65 to +150	°C
Lead Temperature	Soldering, 10 seconds	-	+300	°C
Power Dissipation (P_D)	-	-	Internally Limited	W
Maximum Thermal Resistance Junction to Case (θ_{JC})	-	-	3.5	°C/W
Maximum Junction Temperature (T_J)	-	-	-65 to +150	°C
Ambient Operating Temperature Range (T_A)	Recommended Conditions	-	-55 to +125	°C

ELECTRICAL CHARACTERISTICS

Parameter	Conditions	Min	Limit	Units
Output Voltage (Vo)	V_{IN} = -10V, 5 mA < I_{OUT} < 1.0A T_A = +25°C	-5.10	-4.90	V
Line Regulation (V_{RLINE}) ΔV_{OUT}	-6V ≤ V_{IN} ≤ 26V; I_{OUT} = 5 mA	±4	± 40	mV
Load Regulation (V_{RLOAD}) ΔV_{OUT}	50 mA ≤ I_{OUT} ≤ 1A, V_{IN} = -10V	±1	± 40	mV
Drop Out Voltage V_{DO}	I_o = 0.1A I_o = 1.0A	0.1 0.6	**0.3** **1.0**	V
Quiescent Current ΔI_Q	5 mA < I_{OUT} < 1.0A	1	5	mA
Current Limit I_{CL}	V_{IN} = -10V, R_L = 1Ω	1.5 1.8 (typ)	-	A
Temperature Stability $\Delta V_{OUT} / \Delta t$	-55°C ≤ T_J ≤ +125°C	-	1.5	%
Ripple Rejection ($\Delta V_{IN} / \Delta V_{OUT}$)	V_{IN} = -10V, f = 1 KHz V_{ripple} = 1V_{rms}. I_{OUT} = 5 mA	50 58 (typ)	-	dB
Output Noise Voltage	10 Hz ~ 100 KHz, I_{OUT} = 5 mA	250 (typ)	750	µV
Long Term Stability ($\Delta V_{OUT} / \Delta t$)	T_A = 25°C, t = 1,000	-	2000	ppm

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MECHANICAL DIMENSIONS



TO-257

PINOUT TABLE

TYPE	PIN 1	PIN 2	PIN 3
TO - 257, 1.0A Regulator	Common	V_{IN}	V_{OUT}

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