

TECHNICAL DATA DATA SHEET 4021, REV. –

LOW DROP NEGATIVE 5V 1.0 AMP REGULATOR

FEATURES:

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

MAXIMUM RATINGS

All ratings are at $T_A = 25^{\circ}C$ 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

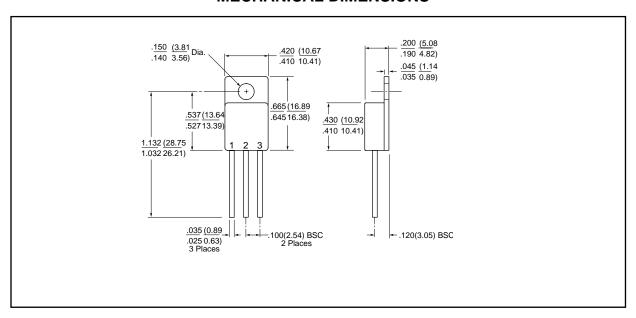
Parameter	Conditions	Min	Limit	Units
Output Voltage (Vo)	$V_{IN} = -10V, 5 \text{ mA} < I_{OUT} < 1.0A$	-5.10	-4.90	V
	T _A = +25°C			
Line Regulation (V_{RLINE}) ΔV_{OUT}	$-6V \le V_{IN} \le 26V$; $I_{OUT} = 5 \text{ mA}$	<u>±</u> 4	± 40	mV
Load Regulation (V _{RLOAD}) ΔV_{OUT}	$50 \text{ mA} \le I_{OUT} \le 1A, V_{IN} = -10V$	±1	± 40	mV
Drop Out Voltage V _{DO}	$I_0 = 0.1A$	0.1	0.3	V
	$I_0 = 1.0A$	0.6	1.0	
Quiescent Current ΔIQ	5 mA < I _{OUT} < 1.0A	1	5	mA
Current Limit I _{CL}	$V_{IN} = -10V, R_L = 1\Omega$	1.5	=	Α
		1.8 (typ)		
Temperature Stability $\Delta V_{OUT}/\Delta t$	-55°C ≤ T _J ≤ +125°C	-	1.5	%
Ripple Rejection (ΔV _{IN} / ΔV _{OUT})	$V_{IN} = -10V, f = 1 \text{ KHz}$	50	=	dB
	$V_{ripple} = 1V_{rms.} I_{OUT} = 5 \text{ mA}$	58 (typ)		
Output Noise Voltage	10 Hz ~ 100 KHz, I _{OUT} = 5 mA	250 (typ)	750	mV
Long Term Stability (ΔV _{OUT} / Δt)	$T_A = 25^{\circ}C$, $t = 1,000$	-	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}	Vout

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