

LM376N Positive Voltage Regulator

REFERENCE TABLE

LM376N Stock No. 29005B

GENERAL DESCRIPTION

The LM376 is a positive voltage regulator for use in consumer products.

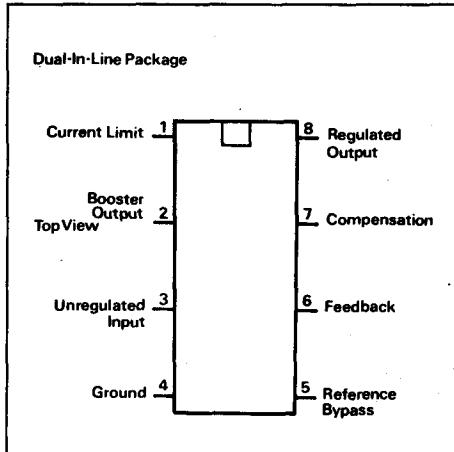
ABSOLUTE MAXIMUM RATINGS

Input voltage	30V
Input-output voltage differential	30V
Power dissipation (Note 1)	400mW
Operating temperature range	0°C to 70°C
Storage temperature range	-65°C to +150°C
Lead temperature (Soldering, 10 sec.)	300°C

FEATURES

Output voltage range:	+5 to 27V
Output current	25mA
Load regulation	1%
Line regulation	0.4%/V

CONNECTION DIAGRAM



See outline drawing No. 103 for dimensions.

7

ELECTRICAL CHARACTERISTICS (NOTE 2)

Parameter	Conditions	Min.	Typ.	Max.	Units
Input voltage range		9.0	30		V
Output voltage range		5.0	27		V
Output-input voltage differential		3.0	25		V
Load regulation	$0 \leq I_o \leq 25\text{mA}$ $R_{sc}=0\Omega, T_A=25^\circ\text{C}$ $R_{sc}=0\Omega, T_A=70^\circ\text{C}$ $R_{sc}=0\Omega, T_A=0^\circ\text{C}$			1.0 1.5 1.5	%
Line Regulation				0.4	%/V
Ripple rejection	$f=120\text{Hz}$			0.4	%/V
Standby current drain	$V_{IN}=30\text{V}$			2.5	mA
Reference voltage				1.72	V
Current limit sense voltage				.325	V

Note 1: For operating at elevated temperatures, the device must be derated based on a 100°C maximum junction temperature and a thermal resistance of $187^\circ\text{C}/\text{W}$ junction to ambient.

Note 2: These specifications apply for an operating temperature between 0°C and 70°C .

PLEASE QUOTE STOCK NO. AND MANUFACTURER'S CODE WHEN ORDERING