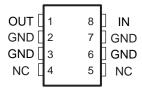
Features

- Wide range of available, fixed output voltage.
- Low cost.
- Internal short-circuit current limiting.
- Internal thermal overload protection.
- No extermal components required.

Pin Configuration

SOP-8(SOIC-8)



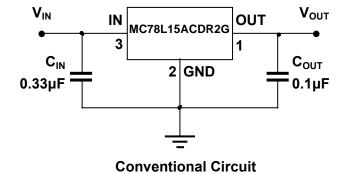
Applications

• Three-terminal positive voltage regulator.

Absolute Maximum Ratings

Symbol	Parameter	Value	Units
Vı	Input voltage	35	V
I _{CM}	Maximum output current	100	mA
P _D	Power dissipation	500	mW
T _{OPR}	Operating junction temperature	0 to +125	$^{\circ}$
T_{j},T_{stg}	Storage temperature range	-40 to +150	$^{\circ}$

Typical Application



MC78L15ACDR2G

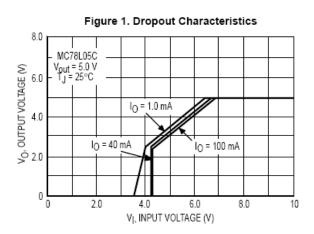
Low Dropout Linear Regulator

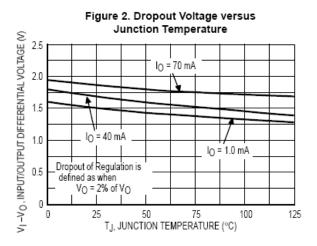
Electrical Characteristics

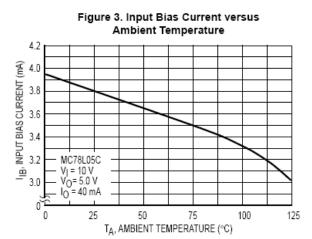
 $(V_{IS}=23V,I_O=40mA,0\,^{\circ}\text{C}\,<\!T_j<\!125\,^{\circ}\text{C}\,,C_I=0.33\mu\text{F},C_O=0.1\mu\text{f},\text{unless otherwise specified})$

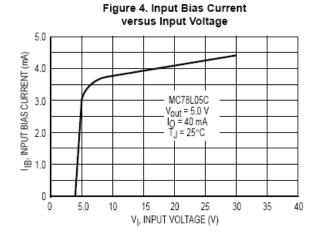
Davamatav	Cymphol	Took oon diki oo	MC78L15ACB2G			LINUT	
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT	
		T _j =25℃	14.4	15	15.6		
Output voltage	Vo	V _i =17.5V-30V,I _O =1mA-40mA	14.25		15.75	V	
		V _i =23V,I _O =1mA-70mA	14.25		15.75		
	$\triangle Reg_load$	T _j =25℃, I _O =1mA-100mA		25	150	m\/	
Load regulation		T _j =25℃, I _O =1mA-40mA		12	75	mV	
Line regulation	∧ Pog	17.5V≤V _i ≤30V, T _j =25°C		130	300	mV	
Line regulation	$\triangle Reg_line$	20V≤V _i ≤30V, T _j =25°C		110	250		
Intput Bias Current	I _{IB}	T _j =25℃		4.4	6.5	mA	
Intput bias Current		T _j =125℃			6.0		
Intput Bias Current Change	$\triangle I_{IB}$	20V≤V _i ≤30V			1.5	mA	
Intput bias Current Change		1mA≤I _O ≤40mA			0.1	ША	
Output noise voltage	V _N	10Hz≤f≤100KHz,T _A =25°C		90		μV	
Ripple rejection	RR	I _O =40mA,18.5V≤V _i ≤28.5V,	34 39	39		dB	
Trippie rejection		f=120Hz, T _J =25℃	J -1	Jä			
Dropout voltage	V _I -V _O	T _J =25℃		1.7		V	

Typical Characteristics @ Ta=25℃ unless otherwise specified



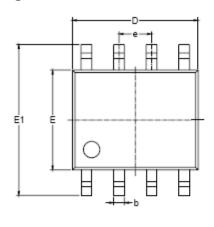


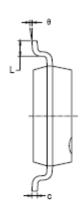


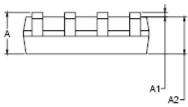




SOP-8(SOIC-8) Package Information







Symbol	Dimensions In Millimeters		Dimensions In Inches	
	MIN	MAX	MIN	MAX
A	1.350	1.750	0.053	0.069
A1	0.100	0.250	0.004	0.010
A2	1.350	1.550	0.053	0.061
b	0.330	0.510	0.013	0.020
С	0.170	0.250	0.008	0.010
D	4.700	5.100	0.185	0.200
E	3.800	4.000	0.150	0.157
E1	5.800	6.200	0.228	0.244
e	1.27 BSC		0.050 BSC	
L	0.400	1.270	0.016	0.050
9	0°	8°	0°	8°

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