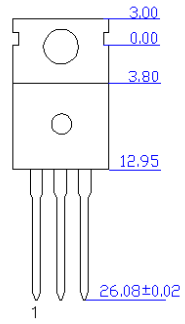
STANDARD

- OUTPUT CURRENT IN EXCESS OF 1A
- OUTPUT VOLTANGES OF 9V
- THERMAL OVERLOAD PROTECTION
- OUTPUT TRANSITION SOA PROTECTION
- 2% OUTTPUT VOLTAGE TOLERANCE
- GUARANTEED IN EXTENDED TEMPERATURE RANGE

TO-220



1. INPUT 2. GND 3. OUTPUT

△ABSOLUTE MAXIMUM RATINGS (TA=25℃)

Parameter	Symbol	Typ	Unit
DC Input Voltage(Vo=5-18)	Vi	35	V
Thermal Resistance Junction-case	RoJC	5	℃/W
Thermal Resistance Junction-ambient	RoJA	65	℃/W
Operating Junction Temperature Range	ToPR	0-125	℃
Storage Temperature Range	Tstg	-65-150	℃

△ELECTRICAL CHARCTERISTICS (0℃≦Tj≦125℃, Io=500mA, V_I=11V, C_I=0.33UF, C_O=0.1UF)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
OUTPUT Voltage	Vo	Tj=25℃	8.65	9	9.35	V
		5.0mA≦Io≦1.0A, P_D≦15W, 11.5V≦V_D≦24V	8.6	9	9.4	
Line Regulation	△Vo	Tj=25℃, 11.5V≦V_I≦25V		6.0	180	mV
		Tj=25℃, 12V≦V_I≦18V		2.0	90	
Load Regulation	△Vo	Tj=25℃, 5.0mA≦Io≦1.5A		12	180	mV
		Tj=25℃, 250mA≦Io≦750mA		4	90	
Quiescent	I_q	Tj=25℃		12	180	mA
Quiescent Current Change	△I_q	5mA≦Io≦1.0A			0.5	mA
		11.5V≦V_I≦26V			1.3	
Output Voltage Drift	△Vo/△T	Io=5mA		-1		mV/℃
Output Noise Votage	Vn	T_A=25℃, 10Hz≦f≦100KHz		58		uV
Supply Voltage Rejection	RR	f=120Hz, 13V≦V_I≦23V	56	71		dB
Dropout	V_d	Io=1A, Tj=25℃		2		V
Output Resistance	Ro	f=1kHz		17		mΩ
Short Circuit Current	Isc	V_I=35V, T_A=25℃		0.23		A
Short Circuit Peak Current	Ipx	Tj=25℃		2.2		A

APPLICATION CIRCUITS

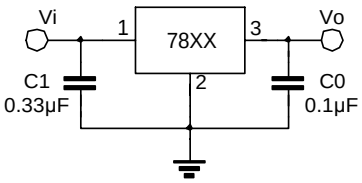


Fig.4 Fixed output regulator

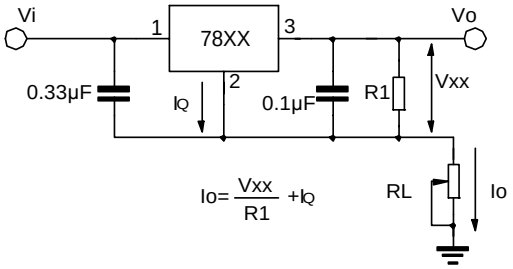


Fig.5 Constant current regulator

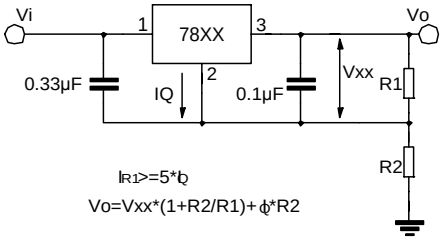


Fig.6 Circuit for increasing Regulator output voltage

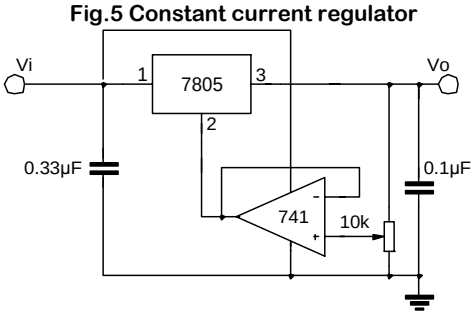


Fig.7 Adjustable output

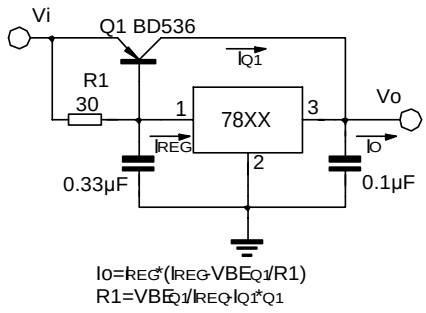


Fig.8 High current with voltage regulator

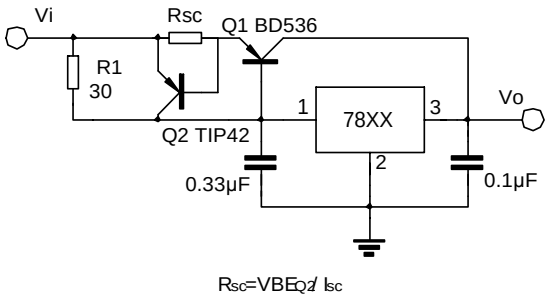


Fig.9 High output curent short circuit protection

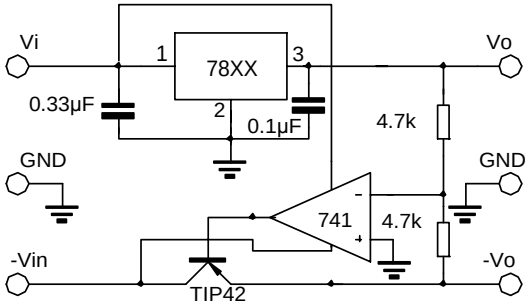


Fig.10 Tracking voltage regulator

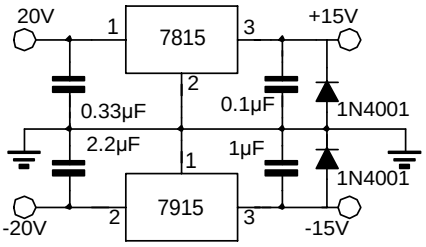


Fig.11 Split power supply(±15V,1A)