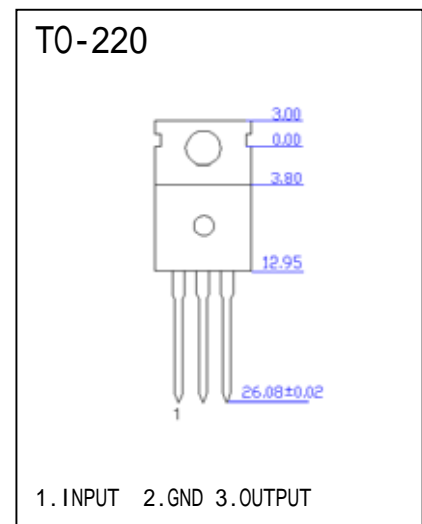


## STANDARD

- OUTPUT CURRENT IN EXCESS OF 1A
- OUTPUT VOLTAGES OF 15V
- THERMAL OVERLOAD PROTECTION
- OUTPUT TRANSITION SOA PROTECTION
- 2% OUTTPUT VOLTAGE TOLERANCE
- GUARANTEED IN EXTENDED TEMPERATURE RANGE

## ABSOLUTE MAXIMUM RATINGS (TA=25 )

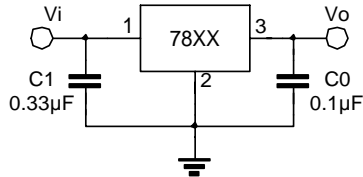
Parameter	Symbol	Typ	Unit
DC Input Voltage(Vo=5-18)	Vi	35	V
Thermal Resistance Junction-case	RoJC	5	/W
Thermal Resistance Junction-ambient	RoJA	65	/W
Operating Junction Temperature Range	ToPR	0-125	
Storage Temperature Range	Tstg	-65-150	



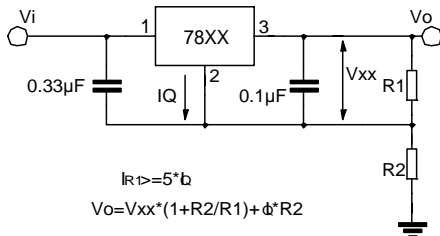
## ELECTRICAL CHARCTERISTICS ( 0 Tj 125 , Io=500mA, Vi=11V, Ci=0.33UF, Co=0.1UF )

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
OUTPUT Voltage	Vo	Tj=25	14.5	15	15.6	V
		5.0mA Io 1.0A, Pd 15W, 17.5V Vi 30V	14.25	15	15.75	
Line Regulation	Vo	Tj=25 , 17.5V Vi 30V		11	300	mV
		Tj=25 , 20V Vi 26V		3	150	
Load Regulation	Vo	Tj=25 , 5.0mA Io 1.5A		12	300	mV
		Tj=25 , 250mA Io 750mA		4	150	
Quiescent	Iq	Tj=25		5.2	8	mA
Quiescent Current Change	Iq	5mA Io 1.0A			0.5	mA
		17.5V Vi 230V			1.0	
Output Voltage Drift	Vo/ T	Io=5mA		-1		mV/
Output Noise Votage	Vn	TA=25 , 10Hz f 100KHz		90		uV
Supply Voltage Rejection	RR	f=120Hz, 18.5V Vi 28.5V	54	70		dB
Dropout	Vd	Io=1A , Tj=25		2		V
Output Resistance	Ro	f=1kHz		19		m
Short Circuit Current	Isc	Vi=35V, TA=25		0.23		A
Short Circuit Peak Current	Ipx	Tj=25		2.2		A

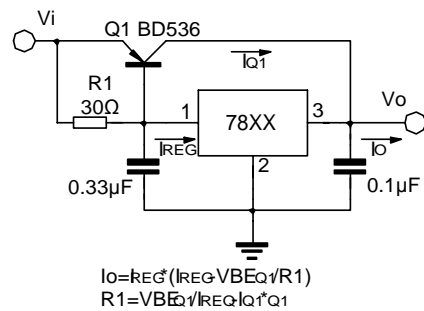
## APPLICATION CIRCUITS



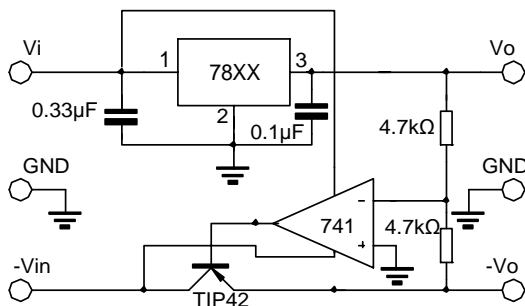
**Fig.4 Fixed output regulator**



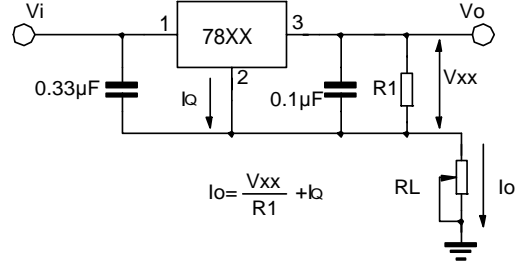
**Fig.6 Circuit for increasing Regulator output voltage**



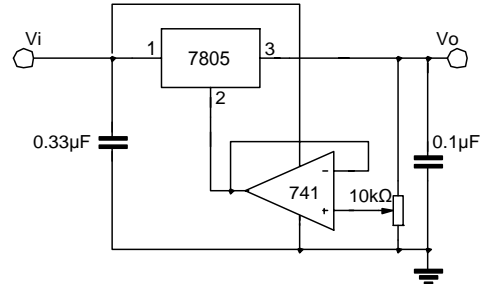
**Fig.8 High current with voltage regulator**



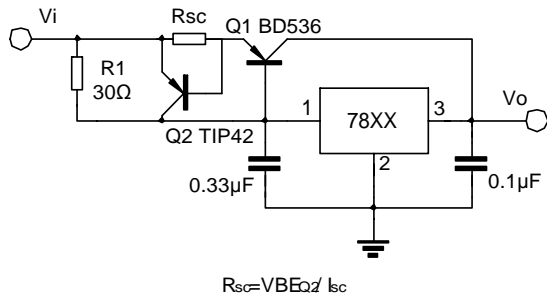
**Fig.10 Tracking voltage regulator**



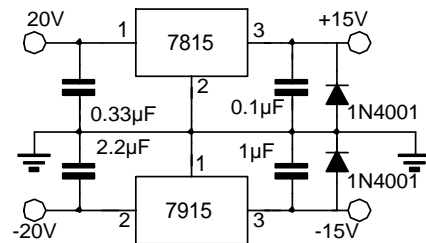
**Fig.5 Constant current regulator**



**Fig.7 Adjustable output**



**Fig.9 High output current short circuit protection**



**Fig.11 Split power supply(±15V,1A)**

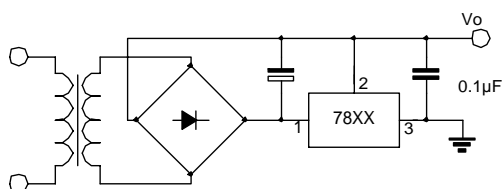


Fig.12 Negative output voltage circuit

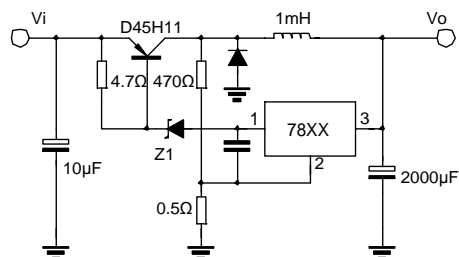
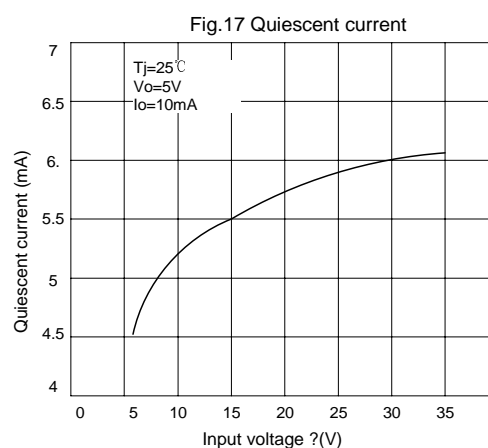
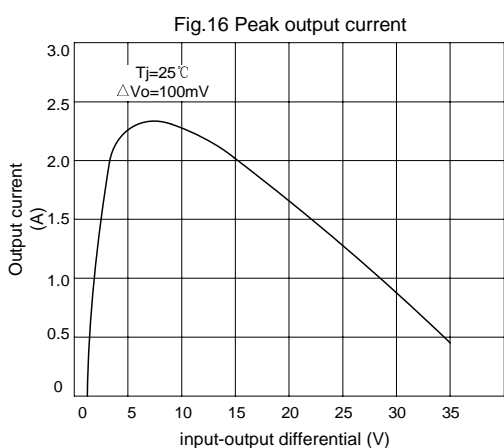
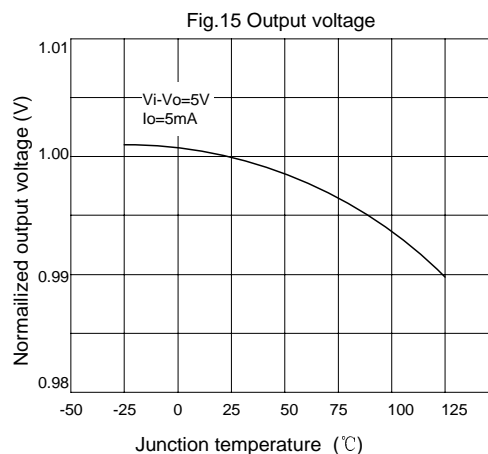
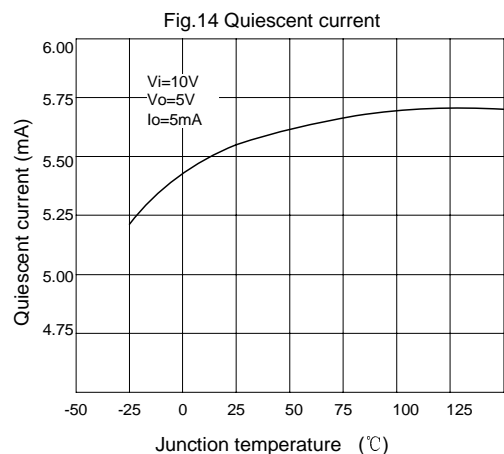


Fig.13 switching regulator

## TYPICAL PERFORMANCE CHARACTERISTICS



PACKAGE OUTLINE

