

S78DL33F

Low Drop output Voltage Regulator

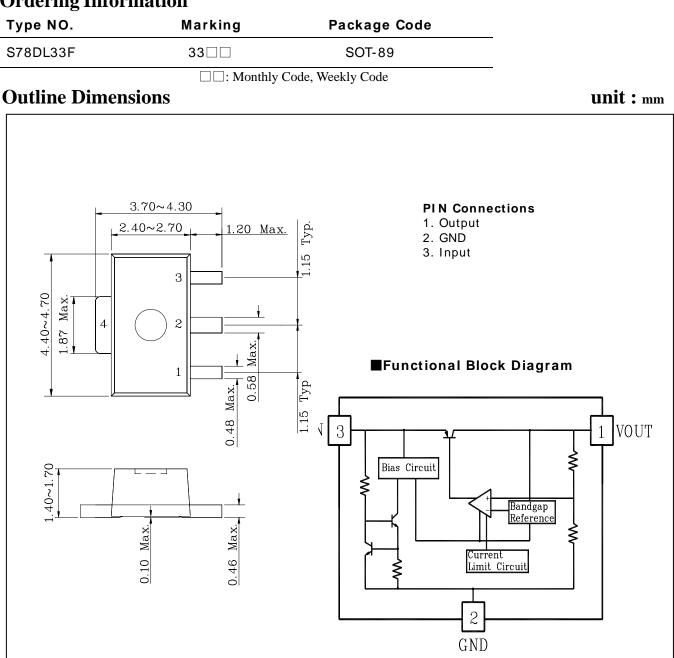
Descriptions

• Three Terminal Positive Low Dropout Voltage Regulator

Features

- Low Standby Current Consumption (500 # Typ.)
- Maximum Output Current (180 mA Max.)
- Less I/O voltage Difference (250 mV Max.)

Ordering Information



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Maximum ratings

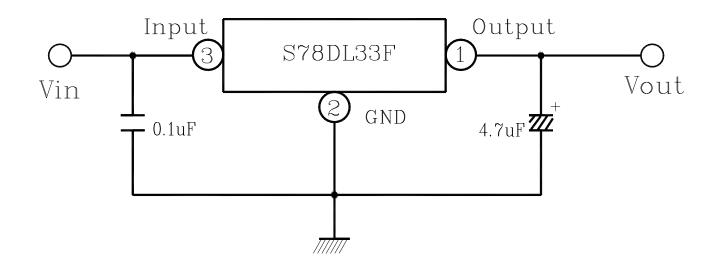
Maximum ratings Ta=2				
Characteristic	Symbol	Ratings	Unit	
Operating Input voltage	V _{IN}	16	V	
Power Dissipation	PD	500	mW	
Operating Temperature Range	T _{OPR}	-40~+85	°C	
Junction Temperature	Tj	150	°C	
Storage Temperature Range	T _{stg}	-55~ 150	°C	
Lead Temperature Time	T _{sol}	260 (10 Sec)	°C	

Electrical Characteristics

(* V_{IN} =4.3V, I_{OUT} =100uA, T_j =25°C)

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Output voltage	V _{OUT}	V _{IN} =4.3V, I _{OUT} =100uA	3.168	3.3	3.432	V
Voltage Regulation	∆ V _{OUT} (1)	V _{IN} =4.3V~10V, I _{OUT} =100uA	-	2	15	mV
Load Regulation	∆ V _{OUT} (2)	V_{IN} =4.3V , I_{OUT} =1~100mA	-	7	28	mV
Dropout Voltage	V	I _{OUT} =50mA	-	110	230	mV
	V _{DROP}	I _{OUT} = 100mA	-	150	300	
Ripple Rejection Ratio	RR	f=100Hz, I _{OUT} =100uA	-	75	-	dB
Ground pin Current		V_{IN} =4.3V , I_{OUT} =100uA		200	400	uA
	I _{GND}	V_{IN} =4.3V , I_{OUT} =50mA		0.9	1.8	mA
		V_{IN} =4.3V , I_{OUT} =100mA		2.1	4	mA

Test circuit



Electrical Characteristic Curves

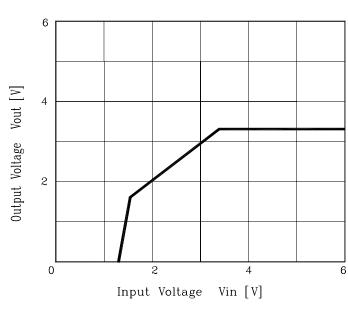
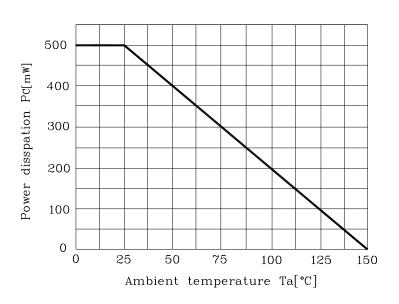


Fig. 1. Vin - Vout





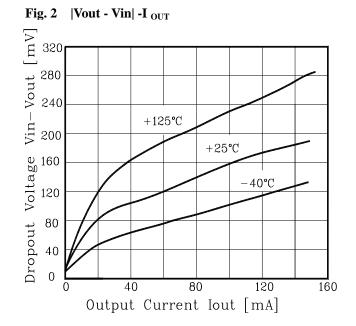
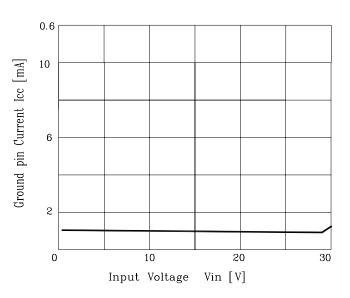


Fig. 4. Input voltage – Ground pin Current



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