GTM CO

GLP2950

100mA Low-Dropout Voltage Regulator

Description

The GLP2950 is a monolithic integrated voltage regulator with low dropout voltage, and low quiescent current. It includes many features that suitable for different applications.

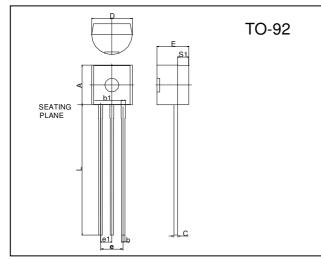
Features

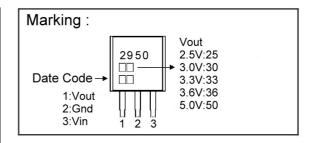
High accuracy 2.5, 3.0, 3.3, 3.6 or 5V fixed output Extremely low quiescent current and dropout voltage Extremely tight load and line regulation Current and thermal Limiting Very low temperature coefficient

Applications

Battery powered equipment Cellular Phones

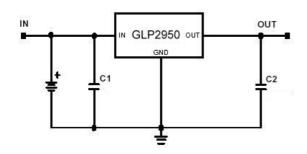
Package Dimensions





REF.	Millimeter		REF.	Millimeter		
	Min.	Max.		Min.	Max.	
Α	4.45	4.7	D	4.44	4.7	
S1	1.02	-	E	3.30	3.81	
b	0.36	0.51	L	12.70	-	
b1	0.36	0.76	e1	1.150	1.390	
С	0.36	0.51	е	2.42	2.66	

Application Circuit



Absolute Maximum Ratings

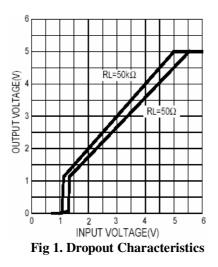
Parameter	Symbol	Ratings	Unit
Input Voltage	Vcc	-0.3 ~ +30	V
Output Current	Ιουτ	100	mA
Output Voltage	Vout	2.5 ~ 5.0	V
Storage Temperature	Tstg	-65 ~ +150	
Maximum Junction Temperature	Tjmax	150	
Operating Junction Temperature	Tj	-40 ~ +125	

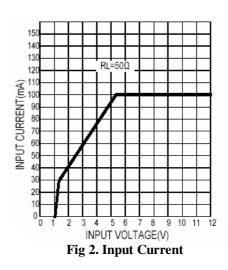
Parameter	Symbol	Condition		TYP	Max	Unit	
Output Voltage	Vout	GLP2950-25	2.45	2.5	2.55	V	
		GLP2950-30	2.94	3.0	3.06		
		GLP2950-33 TJ TJMAX	3.23	3.3	3.36		
		GLP2950-36	3.53	3.6	3.67		
		GLP2950-50	4.90	5.0	5.10		
Line Regulation	REGLINE	Vo+1 VIN 30V	-	0.04	0.4	%	
Load Regulation	REGLOAD	100µA IO 100mA	-	0.1	0.3	%	
Current Limit	ILIM	Vout=0	-	160	200	mA	
Output Voltage Temperature Coefficient	тс		-	20		ppm/ :	
Dropout Voltage	Vapapolit	Io=100µA	μA - 50 80		80	m\/	
Dropout voltage	Vdropout	IO=100mA(Note1)	-	380	450	mV	
Ground Current	IQ.	Io=100µA	-	75	120	μA	
Ground Current		IO=100mA	-	8	12	mA	
Dropout Ground Current		VIN=Vo-0.5V, IO=100µA	-	110	170	μA	
Output Voltage Noise	eN	Co=1µF	-	430	-	μV	
f=10Hz~100kHz		Co=200µF	-	160	-		

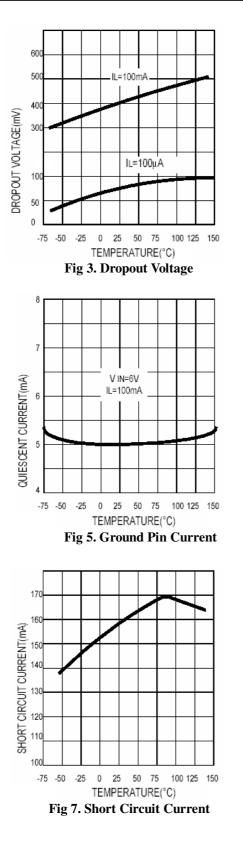
Electrical Characteristics (TJ=25:, VIN=6V, IO=100µA, and Co=1µF, unless otherwise specified)

Note 1: Dropout Voltage is defined as the input to output differential at which the output voltage drops 100mV below its nominal value measured at 1V differential.

Characteristics Curve







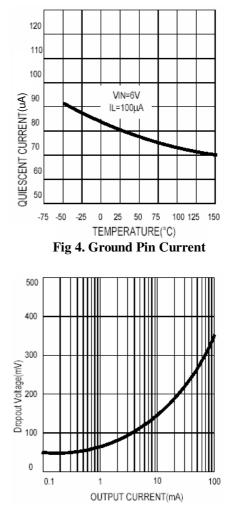


Fig 6. Dropout Voltage

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