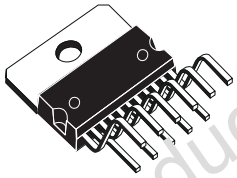
L4959

MULTIFUNCTION VOLTAGE REGULATOR FOR HOME AUDIO

- 4 OUTPUTS:
  12V (1.3A); 12V (0.8A); 8.6V (0.6A); 5.6V (0.25A) STANDBY
- OUT1 12V(a), OUT2 12V(b) AND OUT3 8.6V WITH INDEPENDENT ENABLE CONTROL FOR STAND-BY MODE
- SHORT-CIRCUIT PROTECTION TO GROUND
- THERMAL SHUTDOWN



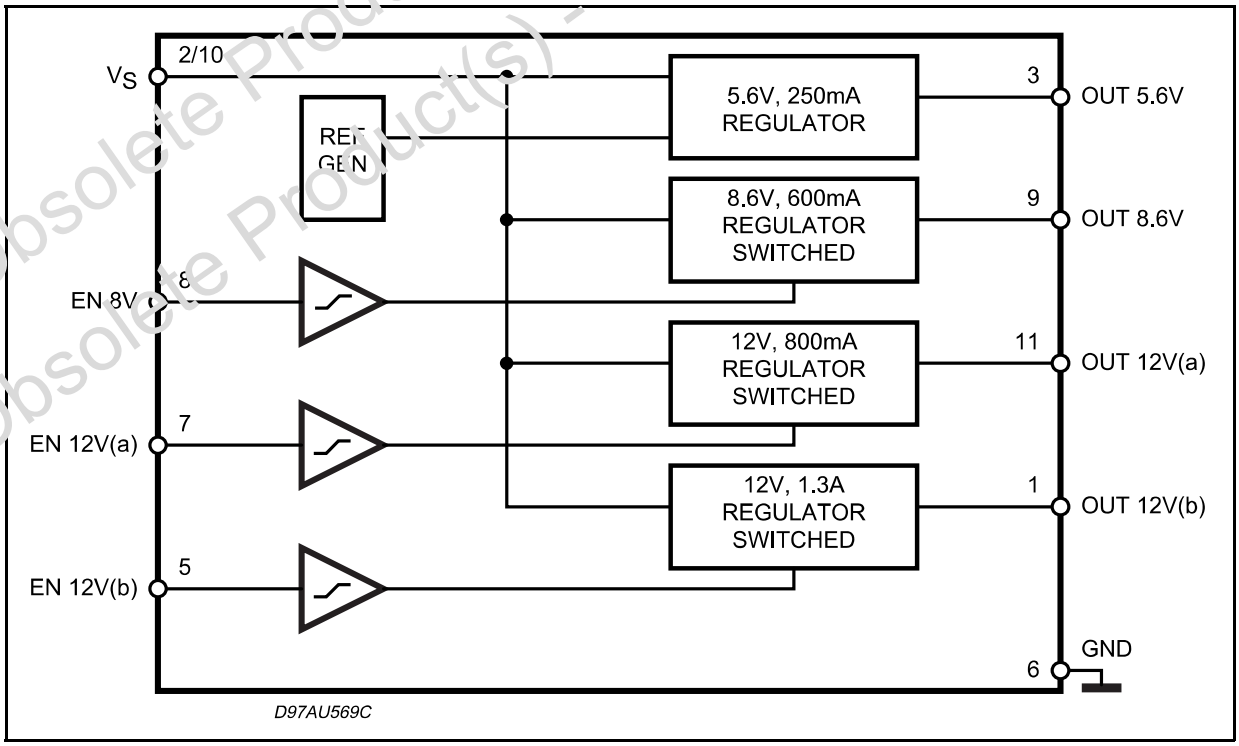
Multiwatt 11

ORDERING NUMBER: L4959

DESCRIPTION

The L4959 is a monolithic Multifunction Voltage Regulator, designed mainly for supplying Home Audio systems. The L4959 contains one un-switched linear 5.6V regulator for Micro, two switched regulators 8.6V and 12V, suitable to feed CD or CD players and LED, Signal Process. An additional 12V regulator for Solenoid Motor an CD_TRAY Driven is also available.

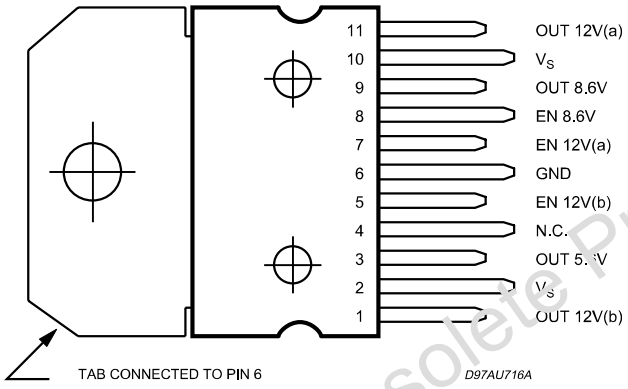
BLOCK DIAGRAM



ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V_S	DC Supply Voltage	35	V
I_O	Output Current	internally limited	
T_{op}	Operating Temperature Range	0 to +70	°C
T_{stg}	Storage Temperature	–40 to 150	°C

PIN CONNECTION (Top view)



PIN DESCRIPTION

Pin	Pins	Description
1	OUT 12V (b)	12V/1.3A SWITCHED OUTPUT VOLTAGE
2	V_S	Supply Voltage
3	OUT 5.6V	5.6V/250mA OUTPUT VOLTAGE
4	N.C.	not connected
5	EN 12V (b)	Enable 12V/1.3A SWITCHED OUTPUT VOLTAGE
6	GND	Ground
7	EN 12V (a)	Enable 12V/0.8A SWITCHED OUTPUT VOLTAGE
8	EN 8.6V	Enable 8.6V/0.6A SWITCHED OUTPUT VOLTAGE
9	OUT 8.6	8.6V/0.6A SWITCHED OUTPUT VOLTAGE
10	V_S	Supply Voltage
11	OUT 12V (a)	12V/0.8A SWITCHED OUTPUT VOLTAGE

QUICK REFERENCE DATA

Symbol	Parameter	Test Condition	Typ.	Unit
$V_{out\ 5V}$	5V Output Voltage	IO = 125mA	5.6	V
		14.4V < V_S < 21.6V 5mA < I < 0.25A	5.6	V
$V_{out\ 8V}$	8.6V Output Voltage	IO = 300mA	8.6	V
		14.4V < V_S < 21.6V 5mA < I < 0.6A	8.6	V
$V_{out\ 12Va}$	12V Output Voltage	Iout = 400mA	12	V
		14.4V < V_S < 21.6V 5mA < I < 0.8A	12	V
$V_{out\ 12Vb}$	12V Output Voltage	Iout = 650mA	12	V
		14.4V < V_S < 21.6V 5mA < I < 1.3A	12	V