

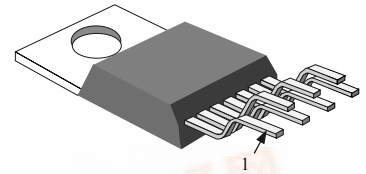
ILA8137**+5.1 V +5.1 V REGULATOR WITH DISABLE AND RESET**

The ILA8137A is a monolithic dual positive voltage regulator designed to provide fixed precision output voltages of 5.1V at current up to 0,75 A.

An internal reset circuit generates a reset pulse when the output 1 decreases below the regulated voltage value.

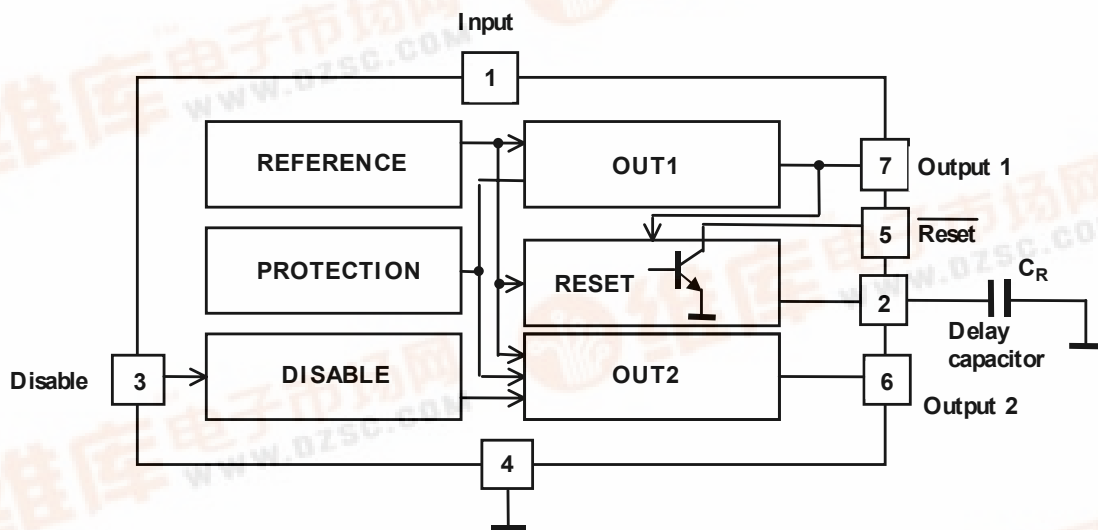
Output 2 can be disabled by TTL input .

Short circuit and thermal protections are included in ILA8137

**Heptawatt**

- 1 - Input 1
- 2 - Input 2
- 3 - Disable
- 4 - Ground
- 5 - N. c.
- 6 - Output 2
- 7 - Output 1

- Output Currents up to 1 A
- Fixed precision output voltage $5.1\text{ V} \pm 2\%$
- Output 1 with reset facility
- Output 2 With Disable by TTL input
- Shot-circuit protection at both outputs
- Thermal protection
- Lowdrop output voltage
- Available also in heptawatt package

BLOCK DIAGRAM**ABSOLUTE MAXIMUM RATINGS**

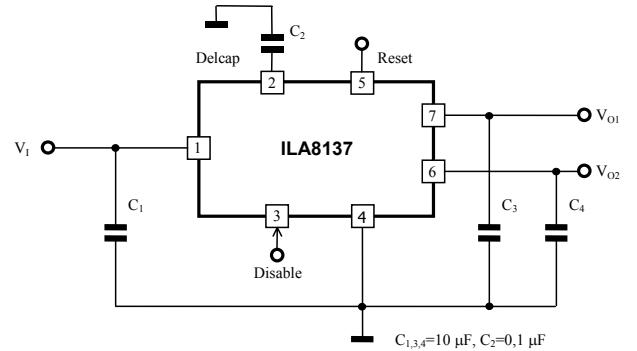
Parameter	Symbol	Value	Unit
DC Input Voltage Pin 1	V_I	20	V
Disable Input Voltage	V_{DIS}	20	V
Output Voltage at Pin 5	V_{RST}	20	V
Storage Temperature	T_{stg}	-65 to +150	°C
Junction Temperature	T_J	0 to +150	°C

ILA8137

THERMAL DATA

Parameter	Symbol	Value	Unit
Maximum Thermal Resistance Junction-Case for Heptawatt	$R_{th(j-c)}$	6	$^{\circ}\text{C}/\text{W}$
Maximum Recommended Junction Temperature	T_J	130	$^{\circ}\text{C}$

TYPICAL APPLICATION



ELECTRICAL CHARACTERISTICS

($V_I = 7\text{V}$, $T_J = +25^{\circ}\text{C}$, unless otherwise specified)

Parameter	Symbol	Min	Max	Unit
Output Voltage $I_{O1,2} = 10\text{ mA}$	$V_{O1,2}$	5	5.2	V
Output Voltage $7\text{ V} < V_I < 14\text{ V}$ $5\text{ mA} < I_{O1,2} < 750\text{ mA}$	$V_{O1,2}$	4.9	5.3	V
Dropout Voltage $I_{O1,2} = 750\text{ mA}$	$V_{IO1,2}$	-	1.4	V
$I_{O1,2} = 1\text{ A}$	$V_{IO1,2}$	-	2	V
Line Regulation $7\text{ V} < V_I < 14\text{ V}$, $I_{O1,2} = 200\text{ mA}$	$\Delta U_{O1,2LI}$	-	50	mV
Load Regulation $5\text{ mA} < I_{O1,2} < 0.6\text{ A}$	$\Delta U_{O1,2LO}$	-	100	mV
Quiescent Current $I_{O1} = 10\text{ mA}$, Output 2 Disabled	I_Q	-	2.0	mA
Reset Threshold Voltage ($K = V_{O1}$)	V_{O1RST}	K-0.4	K-0.1	V
Reset Threshold Hysteresis	V_{RSH}	20	75	V
Seturation Voltage in Reset Condition $I_5 = 5\text{ mA}$	V_{RL}		0.4	V
Leakage Current in Normal Condition at Pin 5 $V_5 = 10\text{ V}$	I_{RH}		10	μA
Short Circuit Output Current $V_I = 7\text{ V}$	$I_{O1,2SC}$	-	1.6	A
$V_I = 16\text{ V}$	$I_{O1,2SC}$	-	1	A
Disable Voltage High (out 2 active)	V_{DISH}	2	-	V
Disable Voltage Low (out 2 disable)	V_{DISL}	-	0.8	V
Disable Bias Current $0\text{ V} < V_{DIS} < 7\text{ V}$	I_{DIS}	-100	2	μA