

## HIGH PSRR Dual LDO Regulator

### General Description

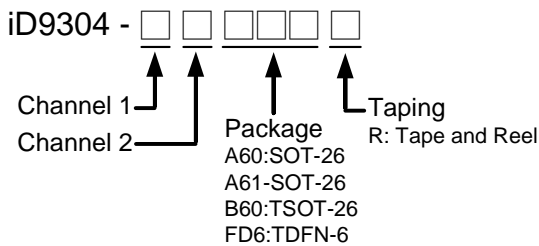
The iD9304 is a high accuracy dual-channel, low noise, and low dropout regulator. It provides up to 200mA current at each channel.

The iD9304 uses a pass element which consumes low supply current with both channels on independent of load current and dropout conditions. The EN1 and EN2 pins control each output and allow the output of each regulator to be turned off independently, resulting in a reduced power consumption. The chip is suitable for battery-powered applications. Other features include a current limiting and over temperature protection.

### Features

- Thermal Protection
- Up to 200mA Output Current for each LDO
- Dual EN/Shutdown Pins Control Each Output
- Low Noise Output
- Current Limiting Protection
- Short Circuit Protection
- High PSRR Dual LDO in SOT-26 Package
- Low Shutdown Current.
- High PSRR 70dB@100Hz
- Auto Discharge

### Ordering Information



Output Voltage	Voltage Code
1.2	G
1.3	I
1.5	F
1.8	H
2.5	L
2.8	O
3.0	K
3.3	T

For Example:

Channel 1:2.8V ; Channel 2:3.3V

iD9304-OTA60R

\*Preferred:CH1-Low Voltage; CH2-High Voltage

Other voltage outputs and combinations may be available. For further details, please contact an iDesyn sales or distributor.

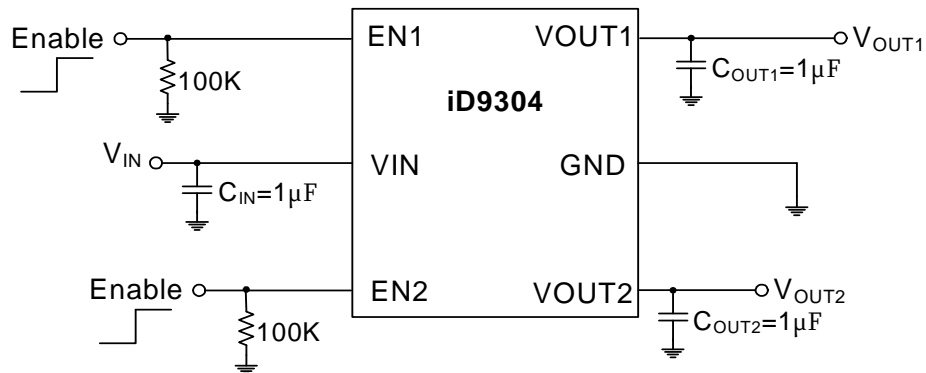
### Applications

- Mobile Phone
- Laptop, Notebook, and Palmtop Computers
- Battery-powered Equipment
- Hand-held Equipment
- Wireless LAN

### Marking Information

For marking information, contact our sales representative directly or through an iDESYN distributor located in your area, otherwise visit our website for details.

### Typical Application Circuit



#### Absolute Maximum Ratings

Supply Voltage $V_{IN}$	6V
Power Dissipation, $P_D$ @ $T_A=25^\circ\text{C}$	
SOT-26/ TSOT-26	400mW
TDFN-6	760mW
Thermal Resistance, $\theta_{ja}$	
SOT-26/ TSOT-26	$250^\circ\text{C/W}$
TDFN-6	$130^\circ\text{C/W}$
Output Current	
$I_{OUT1} + I_{OUT2}$	400mA
Lead Temperature	$260^\circ\text{C}$
Junction Temperature	$-40^\circ\text{C}$ to $150^\circ\text{C}$
Storage Temperature	$-65^\circ\text{C}$ to $150^\circ\text{C}$
ESD Susceptibility	
HBM (Human Body Mode)	2kV
MM (Machine Mode)	200V

#### Recommended Operating Conditions

Input Voltage $V_{IN}$	2.5V to 6V
EN Input Voltage	0V to 5.5V
Junction Temperature	$-40^\circ\text{C}$ to $125^\circ\text{C}$
Ambient Operating Temperature	$-40^\circ\text{C}$ to $85^\circ\text{C}$