

## FEATURES

- Ultra Low Dropout Voltage
- Compatible with low ESR MLCC as Input / Output Capacitor
- Good Line and Load Regulation
- Guaranteed Output Current of 3A
- Available in SOP8-PP, TO-252-5L Packages
- Fixed Output: 1.0V, 1.2V, 1.5V, 1.8V, 2.5V, and 3.3V
- VOUT Power OK Signal
- Programmable Soft-Start Function
- Output Auto Discharge Function
- Over-Temperature/Over-Current Protection

## APPLICATION

- LCD TVs and SETTOP Boxes
- Battery Powered Equipment
- Motherboards and Graphic Cards
- Microprocessor Power Supplies
- Peripheral Cards
- High Efficiency Linear Regulators
- Battery Chargers

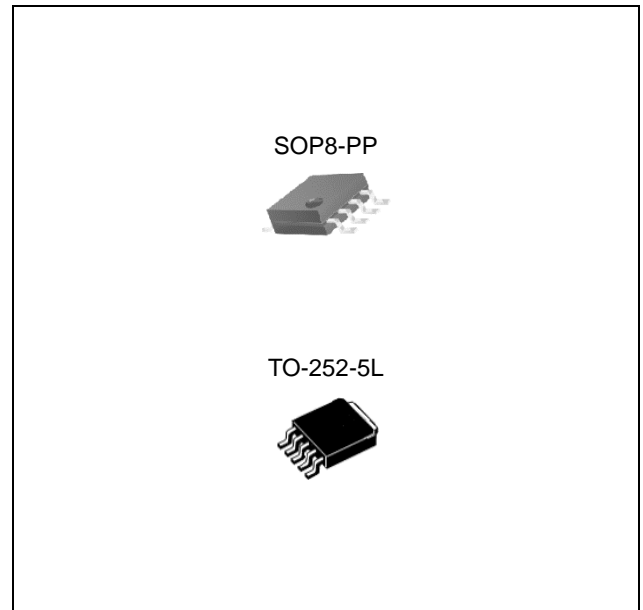
## DESCRIPTION

The TJ4330 series of high performance ultra-low dropout linear regulators operates from 2.5V to 5.5V input supply and provides ultra-low dropout voltage, high output current with low ground current. Wide range of preset output voltage options are available. These ultra-low dropout linear regulators respond fast to step changes in load which makes them suitable for low voltage micro-processor applications. The TJ4330 is developed on a CMOS process technology which allows low quiescent current operation independent of output load current. This CMOS process also allows the TJ4330 to operate under extremely low dropout conditions.

## ABSOLUTE MAXIMUM RATINGS (Note 1)

CHARACTERISTIC	SYMBOL	MIN.	MAX.	UNIT
Input Supply Voltage (Survival)	$V_{IN}$	-	6.5	V
Maximum Output Current	$I_{MAX}$	-	3	A
Lead Temperature (Soldering, 5 sec)	$T_{SOL}$		260	°C
Storage Temperature Range	$T_{STG}$	-65	150	°C
Operating Junction Temperature Range	$T_{JOPR}$	-40	125	°C
Package Thermal Resistance *	$\Theta_{JA-SOP8-PP}$		68	°C/W

\* Calculated from package in still air, mounted to 2.6mm X 3.5mm(minimum foot print) 2 layer PCB without thermal vias per JESD51 standards.



## ORDERING INFORMATION

Device	Package
TJ4330GDP-ADJ	SOP8-PP
TJ4330GDP-X.X	
TJ4330GRS-ADJ	TO-252-5L

X.X = Output Voltage = 1.0, 1.2, 1.5, 1.8, 2.5, and 3.3

Please contact us for more information about this product.