2A Ultra Low Dropout Linear Regulator   TJ4320

FEATURES

- Ultra Low Dropout Voltage
- Compatible with low ESR MLCC as Input / Output Capacitor
- Good Line and Load Regulation
- Guaranteed Output Current of 2A
- Available in SOP8, 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 TJ4320 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 TJ4320 is developed on a CMOS process technology which allows low quiescent current operation independent of output load current. This CMOS process also allows the TJ4320 to operate under extremely low dropout conditions.

SOP8 / SOP8-PP
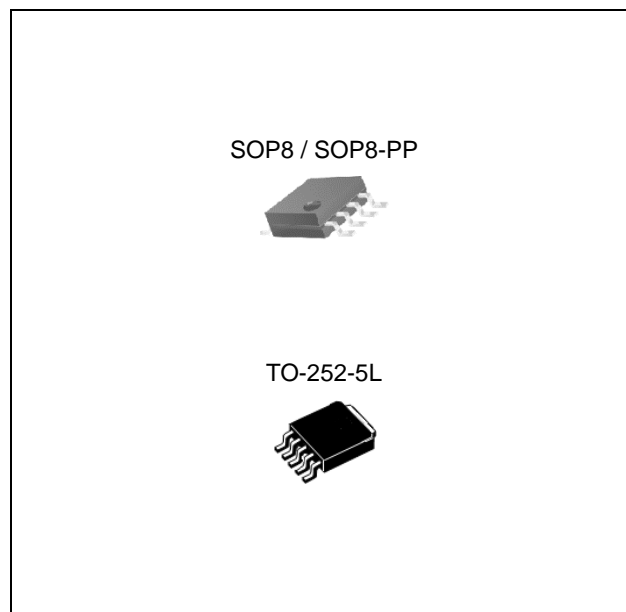
TO-252-5L

ORDERING INFORMATION

Device	Package
TJ4320GD-ADJ	SOP8
TJ4320GD-X.X	
TJ4320GDP-ADJ	SOP8-PP
TJ4320GDP-X.X	
TJ4320GRS-ADJ	TO-252-5L

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

ABSOLUTE MAXIMUM RATINGS [(Note 1)]

CHARACTERISTIC	SYMBOL	MIN.	MAX.	UNIT
Input Supply Voltage (Survival)	V_{IN}	-	6.5	V
Maximum Output Current	I_{MAX}	-	2	A
Lead Temperature (Soldering, 5 sec)	T_{SOL}		260	ºC
Storage Temperature Range	T_{STG}	-65	150	ºC
Operating Junction Temperature Range	T_{JOPR}	-40	125	ºC
Package Thermal Resistance *	$\Theta_{JA\text{-}SOP8\text{-}PP}$	68		ºC/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

Please contact us for more information about this product.