

FEATURES

- Ultra Low Dropout Voltage
- Compatible with low ESR MLCC as Input / Output Capacitor
- Good Line and Load Regulation
- Guaranteed Output Current of 1.5A
- Available in TO-252-5L Package
- Fixed Output: 1.8V, 2.5V, and 3.3V
- 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

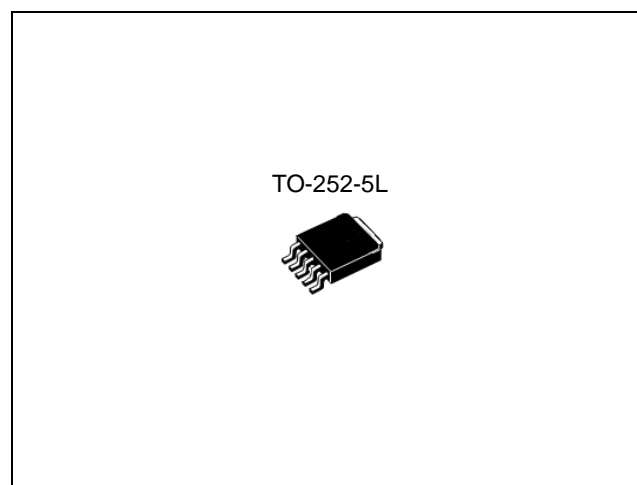
DESCRIPTION

The LD39150 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 LD39150 is developed on a CMOS process technology which allows low quiescent current operation independent of output load current. This CMOS process also allows the LD39150 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}	-	2	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 *	$\Theta_{JA-TO252-5L}$	105		°C/W

* No heat sink / No air flow / No adjacent heat source / 0.066 inch² copper area. ($T_A=25^{\circ}\text{C}$)



ORDERING INFORMATION

Device	Package
LD39150GRS-ADJ	TO-252-5L
LD39150GRS-X.X	

X.X = Output Voltage = 1.8, 2.5, and 3.3

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