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



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.

TO-252-5L

ORDERING INFORMATION

Device	Package		
LD39150GRS-ADJ	TO 252 51		
LD39150GRS-X.X	TO-252-5L		

X.X = Output Voltage = 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}	1	2	А
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 *	Ө _{ЈА-ТО252-5L}	105		°C/W

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

