



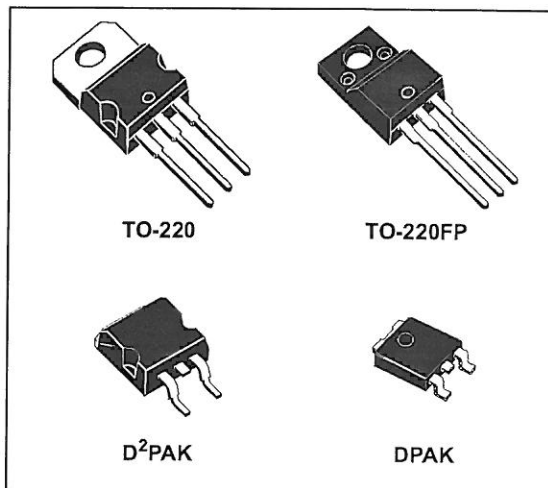
L4941

VERY LOW DROP 1A REGULATOR

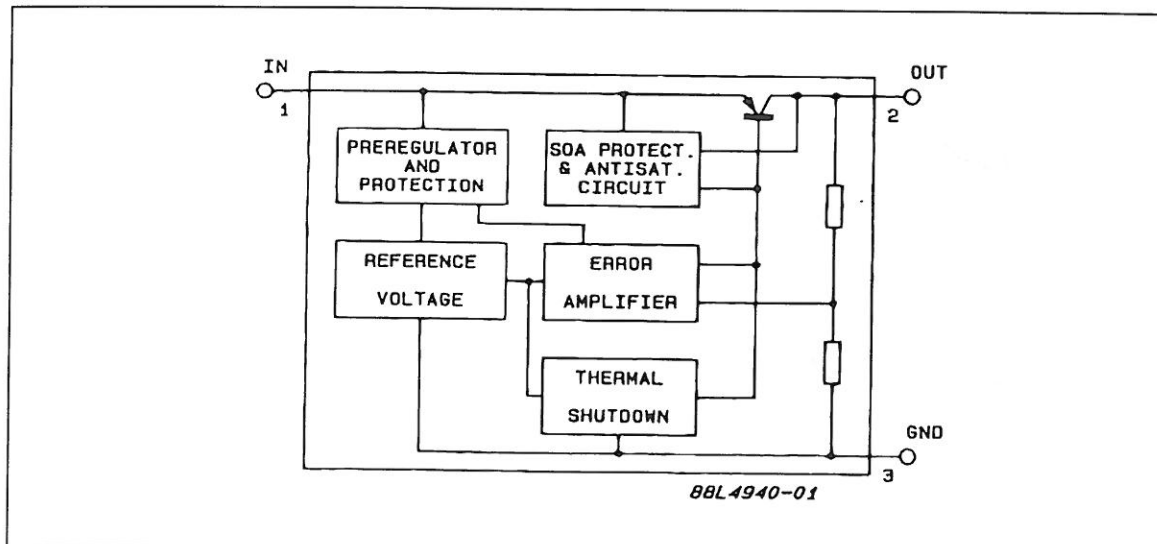
- LOW DROPOUT VOLTAGE (450mV Typ. at 1A)
- VERY LOW QUIESCENT CURRENT
- THERMAL SHUTDOWN
- SHORT CIRCUIT PROTECTION
- REVERSE POLARITY PROTECTION

DESCRIPTION

The L4941 is a three terminal 5V positive regulators available in TO-220, TO-220FP and D²PAK packages, making it useful in a wide range of industrial and consumer applications. Thanks to its very low input/output voltage drop, these devices are particularly suitable for battery powered equipments, reducing consumption and prolonging battery life. It employs internal current limiting, antisaturation circuit, thermal shut-down and safe area protection.



BLOCK DIAGRAM



L4941

ABSOLUTE MAXIMUM RATINGS

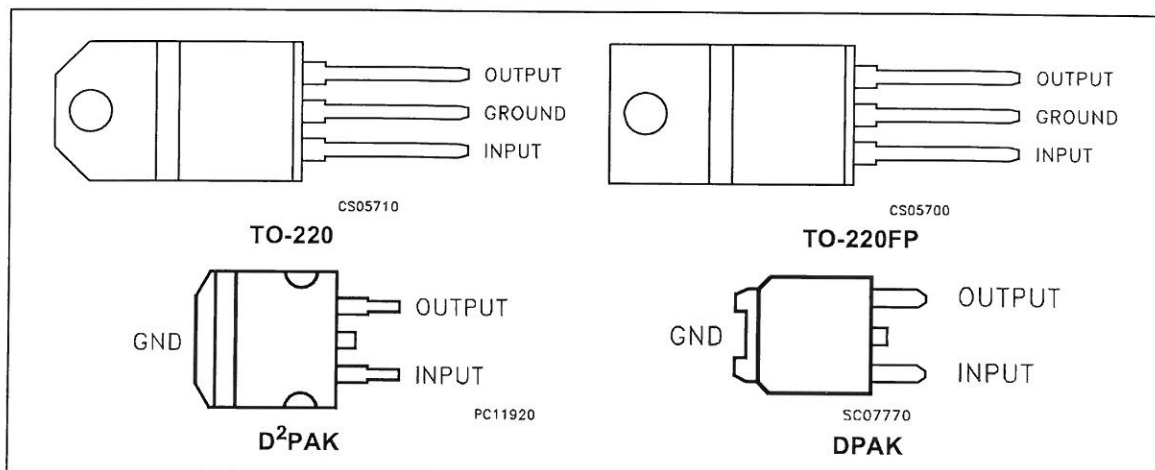
Symbol	Parameter	Value	Unit
V_I	Forward Input Voltage	30	V
V_{IR}	Reverse Input Voltage ($R_O=100\Omega$)	-15	V
I_O	Output Current	Internally Limited	mA
P_D	Power Dissipation	Internally Limited	mW
T_{stg}	Storage Temperature Range	-40 to +150	°C
T_{op}	Operating Junction Temperature Range	-40 to +150	°C

Absolute Maximum Ratings are those values beyond which damage to the device may occur. Functional operation under these condition is not implied.

THERMAL DATA

Symbol	Parameter	TO-220	TO-220FP	D ² PAK	DDPAK	Unit
$R_{thj-case}$	Thermal Resistance Junction-case	3	5	3	8	°C/W
$R_{thj-amb}$	Thermal Resistance Junction-ambient	50	60	62.5	100	°C/W

CONNECTION DIAGRAM (top view)



ORDERING CODES

ORDERING CODE	PACKAGE
L4941BV	TO-220
L4941BP	TO-220FP
L4941BD2T	D ² PAK
L4941BDT (*)	DPAK

(*) Available in Tape & Reel with the suffix "-TR".