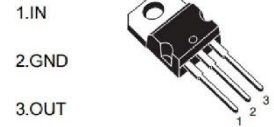


L7908 Three-terminal negative voltage regulator

FEATURES

- Maximum Output Current I_{OM} : 1.5A

TO-220



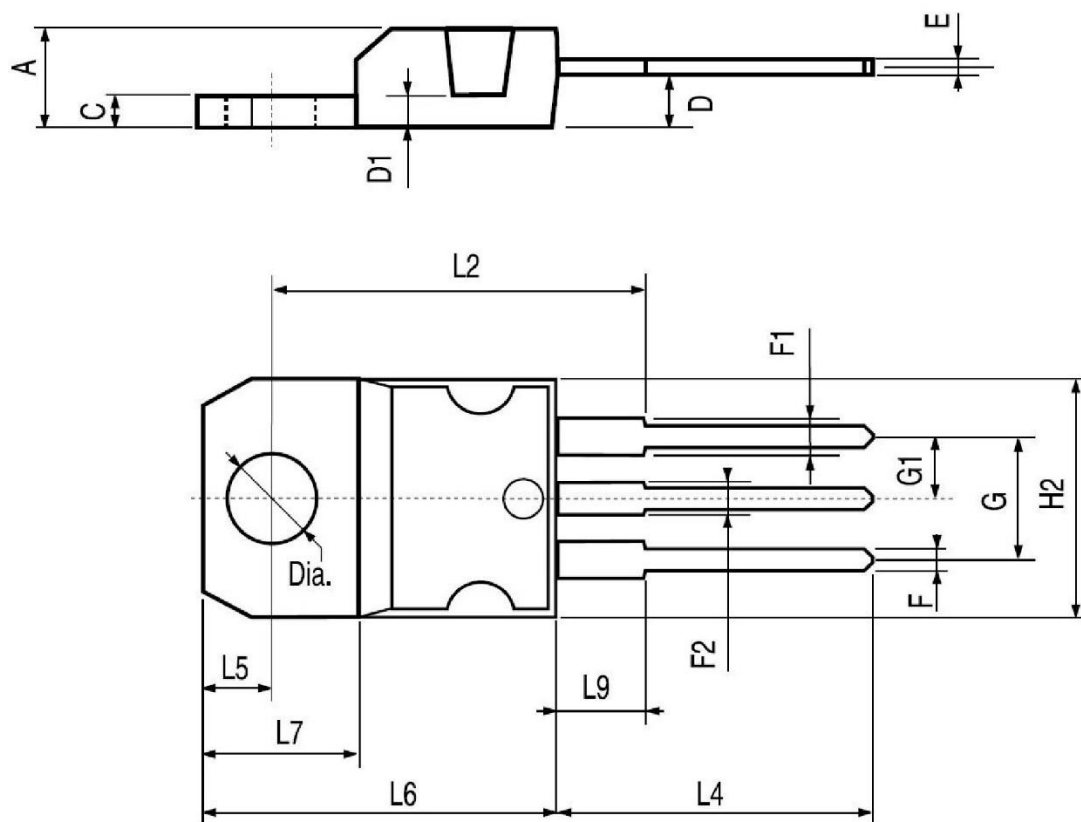
ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	UNIT
Input Voltage	V_i	-35	V
Operating Junction Temperature Range	T_{OPR}	-20 ~ +150	°C
Storage Temperature Range	T_{STG}	-65 ~ +150	°C

ELECTRICAL CHARACTERISTICS

($V_i = -14V$, $I_o = 500mA$, $C_i = 0.33\mu F$, $C_o = 0.1\mu F$, $T_A = -20 \sim 125^\circ C$)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output Voltage	V_o	$T_A = 25^\circ C$	-7.68	-8.0	-8.32	V
		$10.6V \leq V_i \leq 23V$, $I_o = 5mA \sim 1A$, $P_o \leq 15W$	-7.60	-8.0	-8.40	
Load Regulation	ΔV_o	$I_o = 5mA \sim 1.5A$		12	78	mV
		$I_o = 250mA \sim 750mA$		5.0	40	
Line Regulation	ΔV_o	$10.6V \leq V_i \leq 25V$		6	78	mV
		$11V \leq V_i \leq 17V$		3	78	
		$10.4V \leq V_i \leq 21V$		6	78	
		$11V \leq V_i \leq 17V$		2	40	
Quiescent Current	I_Q	$T_A = 25^\circ C$		2.5	5	mA
Quiescent Current Change	ΔI_Q	$11V \leq V_i \leq 25V$			0.8	mA
		$10.6V \leq V_i \leq 23V$, $T_A = 25^\circ C$			0.8	
		$5mA \leq I_o \leq 1A$			0.5	
Output Noise Voltage	V_N	$10Hz \leq F \leq 100KHz$, $T_A = 25^\circ C$		175		μV
Output Voltage Drift	$\Delta V_o / \Delta T$	$I_o = 5mA$		-0.8		mV/°C
Ripple Rejection	RR	$11.5V \leq V_i \leq 21.5V$, $F = 120Hz$		60		dB
Dropout Voltage	V_D	$I_o = 1A$, $T_A = 25^\circ C$		1.5		V
Output Resistance	R_o	$F = 1KHz$		18		mΩ
Short Circuit Current	I_{SC}	$V_i = 35V$, $T_A = 25^\circ C$		10		mA
Peak Current	I_{PK}	$T_A = 25^\circ C$		1.8		A

TO-220-3L Package Outline Dimensions


DIM.	mm.			inch		
	MIN.	TYP	MAX.	MIN.	TYP.	MAX.
A	4.40		4.60	0.173		0.181
C	1.23		1.32	0.048		0.051
D	2.40		2.72	0.094		0.107
D1		1.27			0.050	
E	0.49		0.70	0.019		0.027
F	0.61		0.88	0.024		0.034
F1	1.14		1.70	0.044		0.067
F2	1.14		1.70	0.044		0.067
G	4.95		5.15	0.194		0.203
G1	2.4		2.7	0.094		0.106
H2	10.0		10.40	0.393		0.409
L2		16.4			0.645	
L4	13.0		14.0	0.511		0.551
L5	2.65		2.95	0.104		0.116
L6	15.25		15.75	0.600		0.620
L7	6.2		6.6	0.244		0.260
L9	3.5		3.93	0.137		0.154
DIA.	3.75		3.85	0.147		0.151

All products, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.