

ABSOLUTE MAXIMUM RATINGS

Power dissipation Input-Output Voltage Differential Operating Junction Temperature Range Storage Temperature Lead Temperature(Soldering, 4seconds) **Output is Short Circuit Protected** ESD rating to be determined

Internally limited 38V -20℃ to +85℃ -55°C to +150°C 260°C





ELECTRICAL CHARACTERRISTISTICS

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
Line Regulation	$3V \le (V_{IN}-V_{OUT}) \le 40V, I_L \le 20mA$		0.02	0.07	%/V
Load Regulation	$5mA \le I_{OUT} \le 100mA$		0.3	1.5	%
Reference Voltage	$5mA \le I_{OUT} \le 100mA$ $P \le 625mW$ $3V \le (V_{IN} - V_{OUT}) \le 40V$	1.20	1.25	1.30	V
Adjustment Pin Current			50	100	μΑ
Adjustment Pin Current Change	$5mA \le IL \le 100mA$, $3V \le (VIN-VOUT) \le 40V$ $P \le 625mW$		0.2	5	μA
Minimum Load Current	$(V_{IN}-V_{OUT}) \le 40V$ $3V \le (V_{IN}-V_{OUT}) \le 15V$		3.5 1.5	5	mA
Current Limit	$3V \le (V_{IN} - V_{OUT}) \le 13V$ $(V_{IN} - V_{OUT}) = 40V$	90 25	200 50	300 120	mA
RMS Output Noise % of V _{OUT}	$T_J = 25,10_{HZ} \le F \le 10KH_Z$		0.03		%
Ripple Rejection Ratio	V _{OUT} =10V,F=120H _z ,C _{ADJ} =10F	58	65 80		dB

Unless otherwise noted, these specifications apply: $0^{\circ}\text{C} \leq T_{J} \leq 70^{\circ}\text{C}$ for the WS317L; V_{IN} - V_{OUT} =5V and I_{OUT} = 40mA. Note1:

Although power dissipation is internally limited, these specifications are applicable for power dissipation up to

625mW. I_{MAX} is 100mA

Note2: Regulation is measure at constant junction temperature, using pulse testing with a low duty cycle. Changes in

output voltage due to heating effects are covered under the specification for thermal regulation.

Thermal resistance of the TO-92 package is 180℃/W junction to ambient with 0.4" leads from a PC board and 160 Note3:

°C/W junction to ambient with 0.125" length to a PC board

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