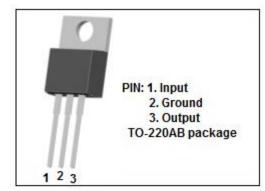


isc Three Terminal Positive Voltage Regulator

LM7812LS

FEATURES

- · Output current in excess of 1.5A
- · Output voltage of 12V
- · Internal thermal overload protection
- · Output transition Safe-Area compensation
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

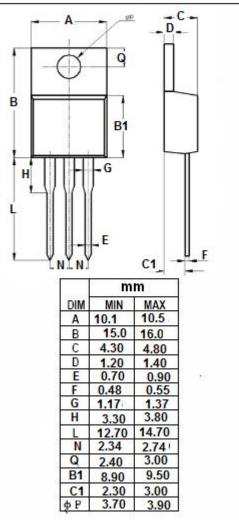


ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	RATING	UNIT
Vi	DC input voltage	35	>
lo	Output current	internally limited	
P _{tot}	Power dissipation	internally limited	
T _{OP}	Operating junction temperature	0~150	$^{\circ}\!$
T _{stg}	Storage temperature	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	5	°C/W
R _{th j-a} Thermal Resistance,Junction to Ambient		50	°C/W





isc Three Terminal Positive Voltage Regulator

LM7812LS

• ELECTRICAL CHARACTERISTICS

T_j=25°C (V_i= 19V, I₀=0.5A, C_i= 0.33 μ F, C₀= 0.1 μ F unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
Vo	Output Voltage	V _{in} =19V; I _O =500mA	11.5	12.5	V
$\triangle V_{V}$	Line Regulation	14.5V≤V _{in} ≤30V; I _O =500mA		120	mV
$\triangle V_i$	Load Regulation	5.0mA≤I ₀ ≤1.5A;V _{in} =19V		100	mV
I _b	Quiescent Current	V _{in} =19V; I _O =1.0A		6.0	mA
\triangle_{b1}	Quiescent Current Change	5.0mA≤I ₀ ≤1.0A;V _{in} =19V		0.5	mA
$\triangle_{ t b2}$	Quiescent Current Change	15V≤V _{in} ≤30V; I ₀ =500mA		0.8	mA



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