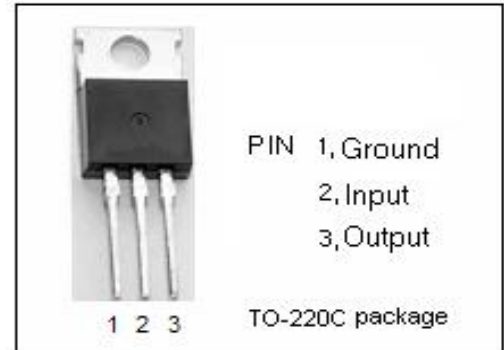
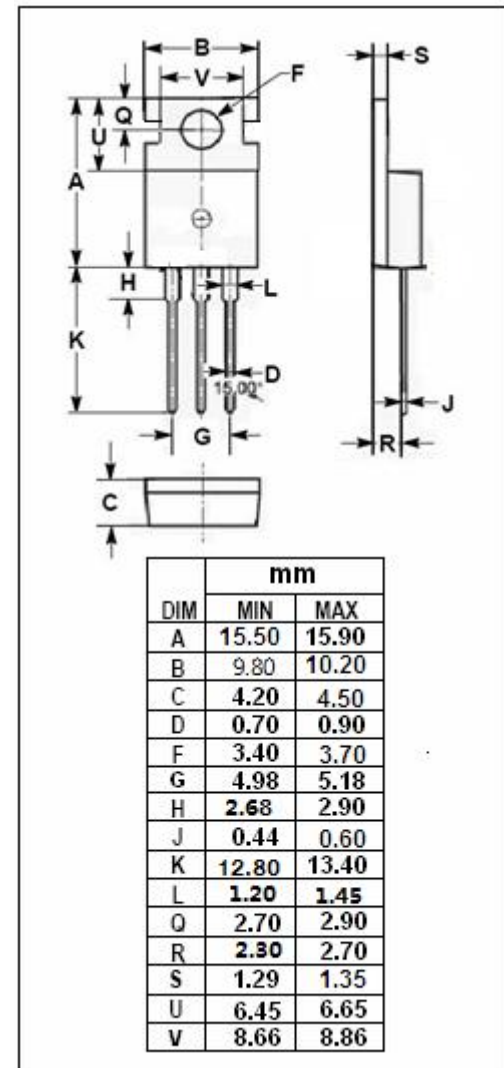


isc Three Terminal Negative Voltage Regulator
7909
FEATURES

- Output current in excess of 1.0A
- Output voltage of -9V
- Internal thermal overload protection
- Output transition Safe-Area compensation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	RATING	UNIT
V _i	DC input voltage	-35	V
I _o	Output current	internally limited	
P _{tot}	Power dissipation	internally limited	
T _{OP}	Operating junction temperature	0~125	°C
T _{stg}	Storage temperature	-55~150	°C


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	65	°C/W

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• ELECTRICAL CHARACTERISTICS

T_j=25°C (V_i= -15V, I_o=0.5A, C_i= 2.2 μ F, C_o= 1 μ F unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _o	Output Voltage	V _{in} =-9V; I _o =0.5A	-8.7		-9.3	V
V _o	Output Voltage	V _{in} =-1.5 to -23V; I _o =5mA to 1A; P _o ≤15W	-8.6	-12	-9.4	V
ΔV _v	Line Regulation	-11.5V ≤ V _{in} ≤ -26V; I _o =0.5A -12V ≤ V _{in} ≤ -18V; I _o =0.5A			180 90	mV
ΔV _i	Load Regulation	5.0mA ≤ I _o ≤ 1.5A; 250mA ≤ I _o ≤ 750mA;			180 90	mV
I _d	Quiescent Current	V _{in} =-15V; I _o =0.5A			6	mA
Δ _{d1}	Quiescent Current Change	5.0mA ≤ I _o ≤ 1.0A; V _{in} =-15V			0.5	mA
Δ _{d2}	Quiescent Current Change	-11.5V ≤ V _{in} ≤ -26V; I _o =0.5A			1	mA

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