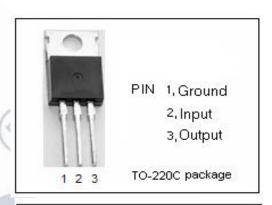
isc Three Terminal Negative Voltage Regulator

7915

FEATURES

- · Output current in excess of 1A
- Output voltage of -15V
- · Internal thermal overload protection
- Output transition Safe-Area compensation

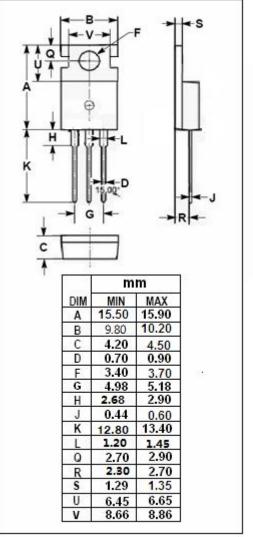


ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	RATING	UNIT
Vi	DC input voltage	-30	V
T _{OP}	Operating junction temperature 0~150		$^{\circ}$
T _{stg}	Storage temperature	-65~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3	°C/W
R _{th j-a}	R _{th j-a} Thermal Resistance,Junction to Ambient		°C/W



isc website: www.iscsemi.com

¹ isc & iscsemi is registered trademark

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• ELECTRICAL CHARACTERISTICS

T_j=25°C (V_i= -23V, I₀=0.5A, C_i= 2.2 μ F, C₀= 1 μ F unless otherwise specified)

SYMBO L	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
Vo	Output Voltage	V _{in} =-23V; I _O =1A	-14.4	-15	-15.6	V
Vo	Output Voltage	V _{in} =-17.5 to -30V; I _O = 5mA to 1A;	-14.4	-15	-15.6	V
$\triangle V_V$	Line Regulation	-17.5V≪V _{in} ≪-30V; I ₀ =0.5A			300	mV
$\triangle V_i$	Load Regulation	5.0mA≤I _O ≤1A; V _{in} =-23V			300	mV
I _b	Quiescent Current	V _{in} =-23V; I _O =1A			4	mA
\triangle b1	Quiescent Current Change	5.0mA≤I ₀ ≤1.0A;V _{in} =-23V			0.5	mA
\triangle_{b2}	Quiescent Current Change	-18.5V≤V _{in} ≤-30V; I _O =0.5A	1		1	mA