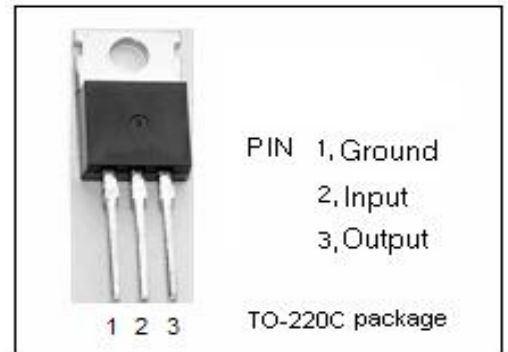


isc Three Terminal Negative Voltage Regulator

L7912CV

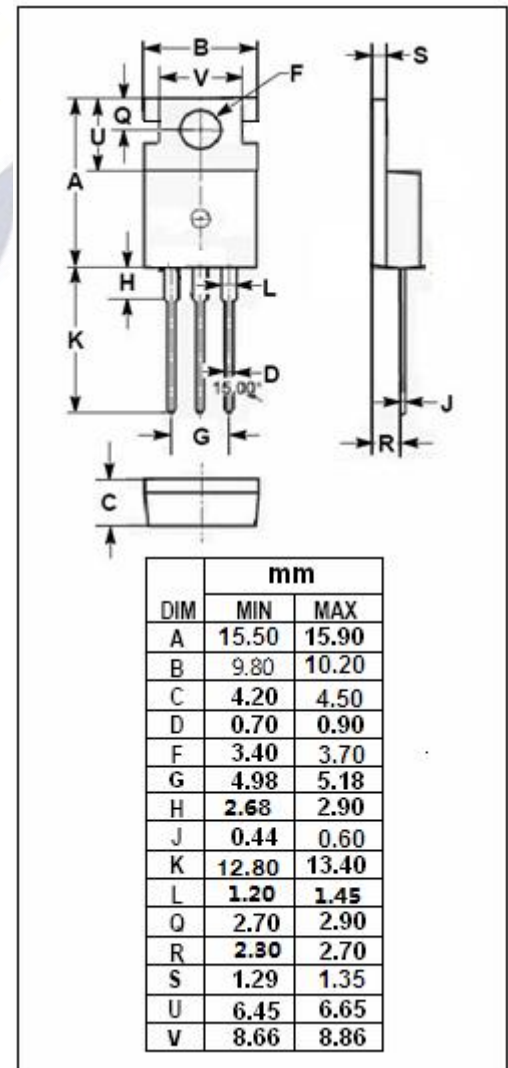
FEATURES

- Output current in excess of 1.5A
- Output voltage of -12V
- 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	0~150	°C
T _{stg}	Storage temperature	-55~150	°C



THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3	°C/W
R _{th j-a}	Thermal Resistance, Junction to Ambient	50	°C/W

isc Three Terminal Negative Voltage Regulator**L7912CV****• ELECTRICAL CHARACTERISTICS** $T_j=25^{\circ}\text{C}$ ($V_i=-19\text{V}$, $I_o=0.5\text{A}$, $C_i=2.2\mu\text{F}$, $C_o=1\mu\text{F}$ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V_o	Output Voltage	$V_{in}=-19\text{V}$; $I_o=0.5\text{A}$	-11.5	-12.5	V
V_o	Output Voltage	$V_{in}=-15.5\text{to}-27\text{V}$; $I_o=-5\text{mA to}-1\text{A}$;	-11.4	-12.6	V
ΔV_v	Line Regulation	$-14.5\text{V}\leq V_{in}\leq-30\text{V}$; $I_o=0.5\text{A}$		240	mV
ΔV_i	Load Regulation	$5.0\text{mA}\leq I_o\leq 1.5\text{A}$;		240	mV
I_d	Quiescent Current	$V_{in}=-19\text{V}$; $I_o=1.0\text{A}$		6.0	mA
Δ_{d1}	Quiescent Current Change	$5.0\text{mA}\leq I_o\leq 1.0\text{A}$; $V_{in}=-19\text{V}$		0.5	mA
Δ_{d2}	Quiescent Current Change	$-15\text{V}\leq V_{in}\leq-30\text{V}$; $I_o=0.5\text{A}$		1.0	mA