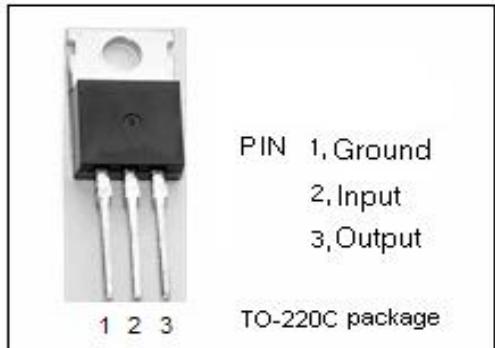


isc Three Terminal Negative Voltage Regulator

L7912CV

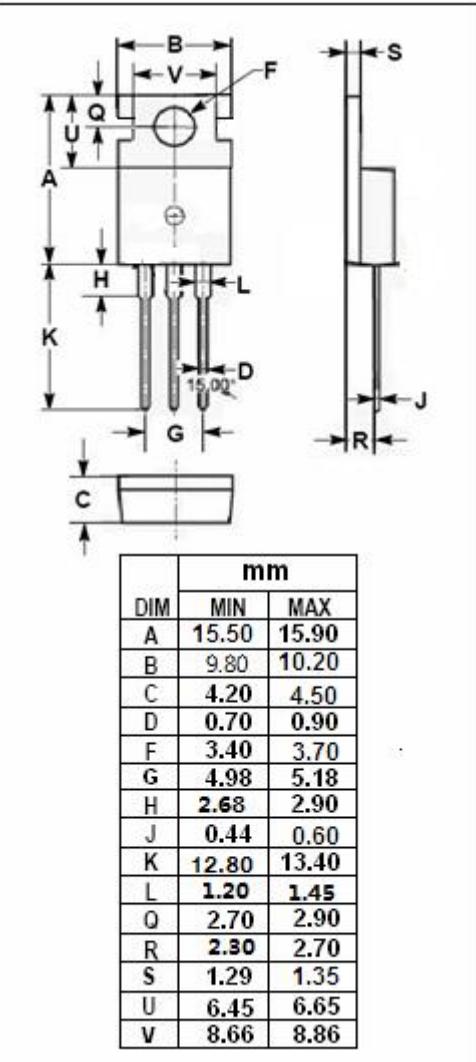
FEATURES

- 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($T_a=25^\circ\text{C}$)

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}	QuiescentCurrentChange	$5.0\text{mA} \leq I_o \leq 1.0\text{A}$; $V_{in} = -19\text{V}$		0.5	mA
Δ_{d2}	QuiescentCurrentChange	$-15\text{V} \leq V_{in} \leq -30\text{V}$; $I_o = 0.5\text{A}$		1.0	mA