

**isc Three Terminal Positive Voltage Regulator**
**7912**
**FEATURES**

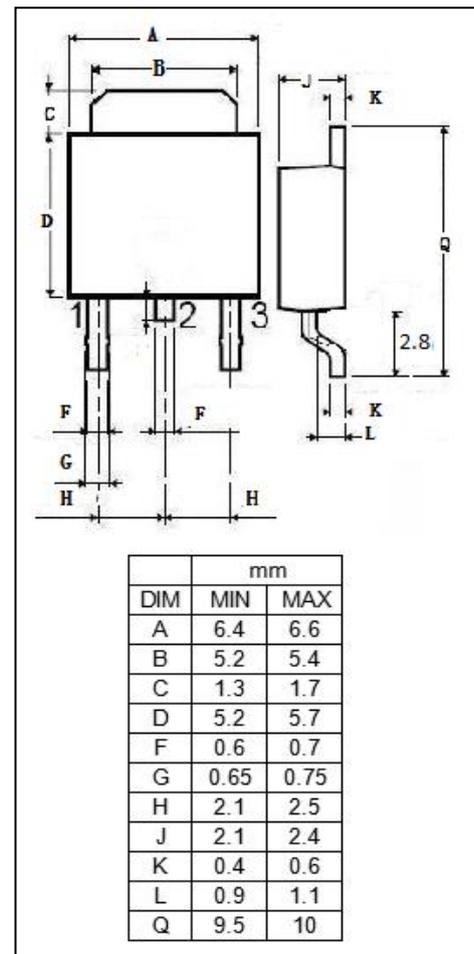
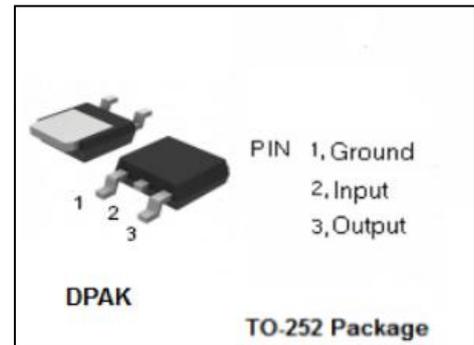
- Output current in excess of 1.5A
- Output voltage of -12V
- Internal thermal overload protection
- Output transition Safe-Area compensation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**ABSOLUTE MAXIMUM RATINGS(T<sub>a</sub>=25°C)**

SYMBOL	PARAMETER	RATING	UNIT
V <sub>i</sub>	DC input voltage	-35	V
I <sub>o</sub>	Output current	internally limited	
P <sub>tot</sub>	Power dissipation	internally limited	
T <sub>OP</sub>	Operating junction temperature	-40~125	°C
T <sub>stg</sub>	Storage temperature	-55~150	°C

**THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case	3	°C/W
R <sub>th j-a</sub>	Thermal Resistance, Junction to Ambient	50	°C/W



**isc Three Terminal Negative Voltage Regulator****7912****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	TYP	MAX	UNIT
$V_o$	Output Voltage	$V_{in}=-19\text{V}$ ; $I_o=0.5\text{A}$	-11.5	-12	-12.5	V
$V_o$	Output Voltage	$V_{in}=-15.5\text{to}-27\text{V}$ ; $I_o=5\text{mA}$ to $1\text{A}$ ; $P_o\leq 15\text{W}$	-11.4	-12	-12.6	V
$\Delta V_v$	Line Regulation	$-14.5\text{V}\leq V_{in}\leq -30\text{V}$ ; $I_o=0.5\text{A}$ $-16\text{V}\leq V_{in}\leq -22\text{V}$ ; $I_o=0.5\text{A}$			240 120	mV
$\Delta V_i$	Load Regulation	$5.0\text{mA}\leq I_o\leq 1.5\text{A}$ ; $250\text{mA}\leq I_o\leq 750\text{mA}$ ;			240 120	mV
$I_d$	Quiescent Current	$V_{in}=-19\text{V}$ ; $I_o=0.5\text{A}$			3	mA
$\Delta_{d1}$	Quiescent Current Change	$5.0\text{mA}\leq I_o\leq 1.0\text{A}$ ; $V_{in}=-19\text{V}$			0.5	mA
$\Delta_{d2}$	Quiescent Current Change	$-15\text{V}\leq V_{in}\leq -30\text{V}$ ; $I_o=0.5\text{A}$			1	mA

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