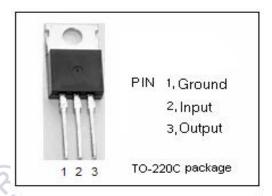




isc Three Terminal Negative Voltage Regulator

FEATURES

- · Output current in excess of 1A
- · Output voltage of -5V
- · Internal thermal overload protection
- · Output transition Safe-Area compensation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

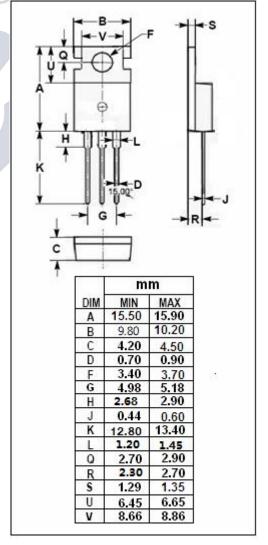


ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	RATING	UNIT
Vi	DC input voltage	-35	V
Io	Output current	internally limited	
P _{tot}	Power dissipation	internally limited	9^
T _{OP}	Operating junction temperature	0~125	$^{\circ}$ C
T _{stg}	Storage temperature	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	5	°C/W
R _{th j-a}	R _{th j-a} Thermal Resistance,Junction to Ambient		°C/W



isc Three Terminal Negative Voltage Regulator

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• ELECTRICAL CHARACTERISTICS

 T_j =25°C (V_i= -10V, I_O=0.5A, C_i= 2.2 μ F, C_O= 1 μ F unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
Vo	Output Voltage	V _{in} = -10V; I _O =500mA	-4.8	-5.2	V
Vo	Output Voltage	I _O =5mA to 1A; V _{in} =-7V to -20V	-4.75	-5.25	V
$\triangle V_V$	Line Regulation	-7V≤V _{in} ≤-25V		100	mV
$\triangle V_i$	Load Regulation	5mA≤I ₀ ≤1.5A		100	mV
Iq	Quiescent Current	V _{in} = 10V; I _O = 1.5A		6	mA
\triangle_{q1}	Quiescent Current Change	5mA≤I ₀ ≤1A; V _{in} = 10V		0.5	mA
$\triangle_{ t q2}$	Quiescent Current Change	-8V≤V _{in} ≤-25V		0.8	mA

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