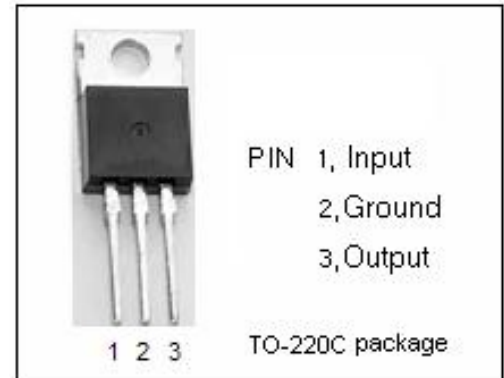
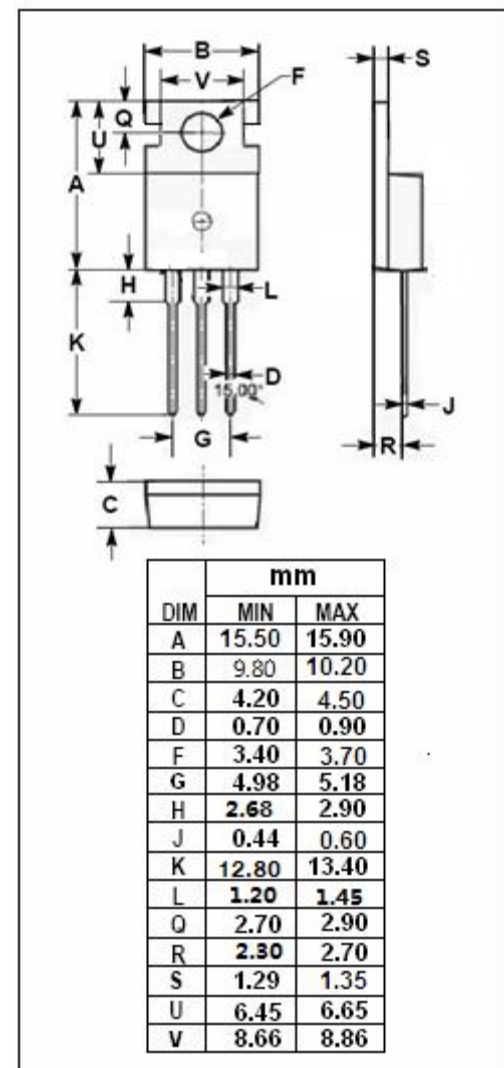


isc Three Terminal Positive Voltage Regulator
LM7809CT
FEATURES

- Output current in excess of 1.5A
- Output voltage of 9V
- 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	26	V
I_o	Output current	internally limited	
P_{tot}	Power dissipation	internally limited	
T_{OP}	Operating junction temperature	-40~125	$^{\circ}\text{C}$
T_{stg}	Storage temperature	-55~150	$^{\circ}\text{C}$


THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	5	$^{\circ}\text{C}/\text{W}$
$R_{th\ j-a}$	Thermal Resistance, Junction to Ambient	65	$^{\circ}\text{C}/\text{W}$

isc Three Terminal Positive Voltage Regulator

LM7809CT

• ELECTRICAL CHARACTERISTICS

T_j=25°C (V_i=15V, I_o=0.5A, C_i=0.33 μF, C_o=0.1 μF unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _o	Output Voltage	V _{in} =15V; I _o =500mA	8.65	9.35	V
ΔV _v	Line Regulation	11.5V ≤ V _{in} ≤ 26V; I _o =500mA		100	mV
ΔV _i	Load Regulation	5.0mA ≤ I _o ≤ 1.5A; V _{in} =15V		100	mV
I _b	Quiescent Current	V _{in} =15V; I _o =0.5A		8.0	mA
Δ _{b1}	Quiescent Current Change	5.0mA ≤ I _o ≤ 1.0A; V _{in} =15V		0.25	mA
Δ _{b2}	Quiescent Current Change	12V ≤ V _{in} ≤ 26V; I _o =500mA		0.4	mA

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