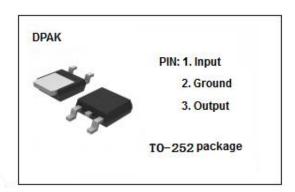


isc Three Terminal Positive Voltage Regulator

NJM7805

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

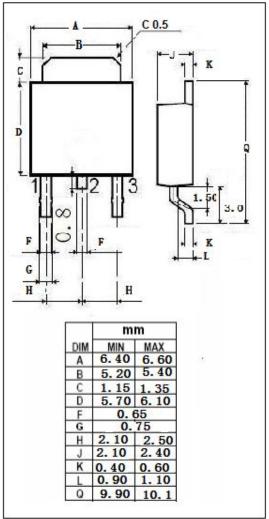


ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	RATING	UNIT
Vi	DC input voltage	35	V
lo	Output current	internally limited	Α
P _{tot}	Power dissipation	internally limited	W
Тор	Operating junction temperature	-40~85	${\mathbb C}$
T _{stg}	Storage temperature	-40~150	$^{\circ}$

THERMAL CHARACTERISTICS

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



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isc Three Terminal Positive Voltage Regulator

NJM7805

• ELECTRICAL CHARACTERISTICS

 T_j =25°C (C_i = 0.33 μ F, C_o = 0.1 μ F unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
Vo	Output Voltage	V _{in} =10V; I _O =0.5A	4.8	5.2	V
$\triangle V_{V}$	Line Regulation	7V≪V _{in} ≪25V; I _O =0.5A		50	mV
$\triangle V_i$	Load Regulation	5.0mA≤I _O ≤1.5A;V _{in} =10V		100	mV
Iq	Quiescent Current	V _{in} =10V; I _O =1.5A		6.0	mA
$\triangle_{ t q1}$	Quiescent Current Change	5.0mA≤I ₀ ≤1.0A;V _{in} =10V		0.5	mA
\triangle_{q2}	Quiescent Current Change	7V≪V _{in} ≪25V; I ₀ =0.5A		1.0	mA



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