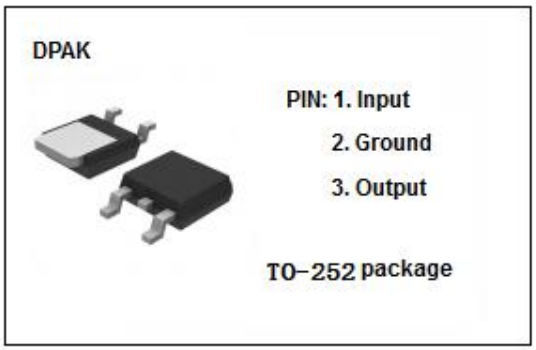
isc Three Terminal Positive Voltage Regulator NJM7805

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

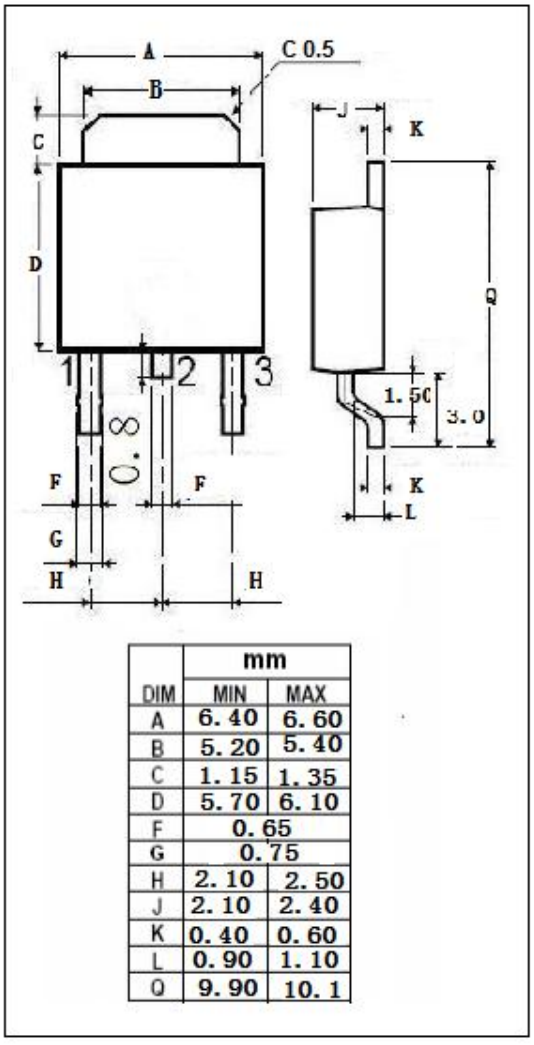


ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	RATING	UNIT
V_i	DC input voltage	35	V
I_o	Output current	internally limited	A
P_{tot}	Power dissipation	internally limited	W
T_{OP}	Operating junction temperature	-40~85	℃
T_{stg}	Storage temperature	-40~150	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance, Junction to Case	3	℃/W
$R_{th\ j\text{-}a}$	Thermal Resistance,Junction to Ambient	50	℃/W



DIM	mm MIN	MAX
A	6.40	6.60
B	5.20	5.40
C	1.15	1.35
D	5.70	6.10
F	0.65	
G	0.75	
H	2.10	2.50
J	2.10	2.40
K	0.40	0.60
L	0.90	1.10
Q	9.90	10.1

Download from alldatasheet.com

isc Three Terminal Positive Voltage Regulator NJM7805

• ELECTRICAL CHARACTERISTICS

T_j=25℃ (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}=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
I_q	Quiescent Current	V_{in}=10V; I_O=1.5A		6.0	mA
$\triangle_{q1}$	Quiescent Current Change	5.0mA≤I_O≤1.0A;V_{in}=10V		0.5	mA
$\triangle_{q2}$	Quiescent Current Change	7V≤V_{in}≤25V; I_O=0.5A		1.0	mA

NOTICE：
ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.
ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.
ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.

Download from alldatasheet.com