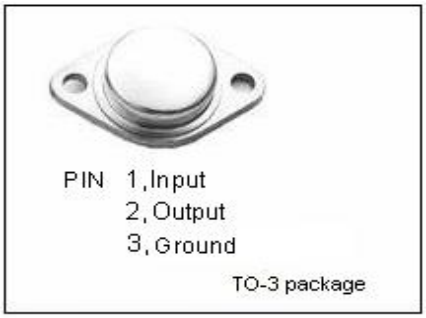
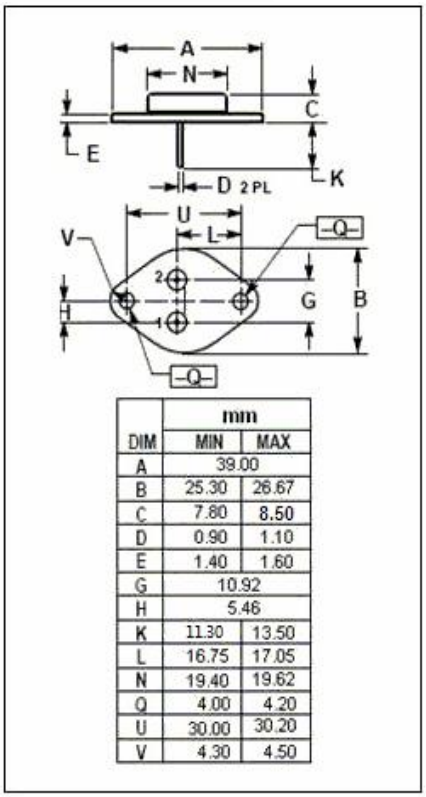
isc Three Terminal Positive Voltage Regulator LM7812K



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



DIM	mm MIN	MAX
A	39.00	
B	25.30	26.67
C	7.80	8.50
D	0.90	1.10
E	1.40	1.60
G	10.92	
H	5.46	
K	11.30	13.50
L	16.75	17.05
N	19.40	19.62
Q	4.00	4.20
U	30.00	30.20
V	4.30	4.50

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	RATING	UNIT
V_i	DC input voltage	35	V
I_o	Output current	internally limited	
P_{tot}	Power dissipation	internally limited	
T_{OP}	Operating junction temperature	0~150	℃
T_{stg}	Storage temperature	-55~150	℃

• ELECTRICAL CHARACTERISTICS

T_j=25℃ (V_i= 19V, I_O=0.5A, C_i= 0.33μF, C_O= 0.1μF unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V_O	Output Voltage	V_{in}=19V; I_O=500mA	11.5	12.5	V
$\triangle V_V$	Line Regulation	14.5V≤V_{in}≤30V; I_O=500mA		120	mV
$\triangle V_i$	Load Regulation	5.0mA≤I_O≤1.0A;V_{in}=19V		100	mV
I_b	Quiescent Current	V_{in}=19V; I_O=1A		6.0	mA
$\triangle_{b1}$	Quiescent Current Change	5.0mA≤I_O≤1.0A;V_{in}=19V		0.5	mA
$\triangle_{b2}$	Quiescent Current Change	15V≤V_{in}≤30V; I_O=500mA		0.8	mA