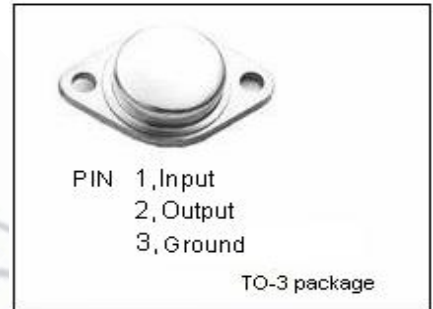


isc Three Terminal Positive Voltage Regulator

LM7812K

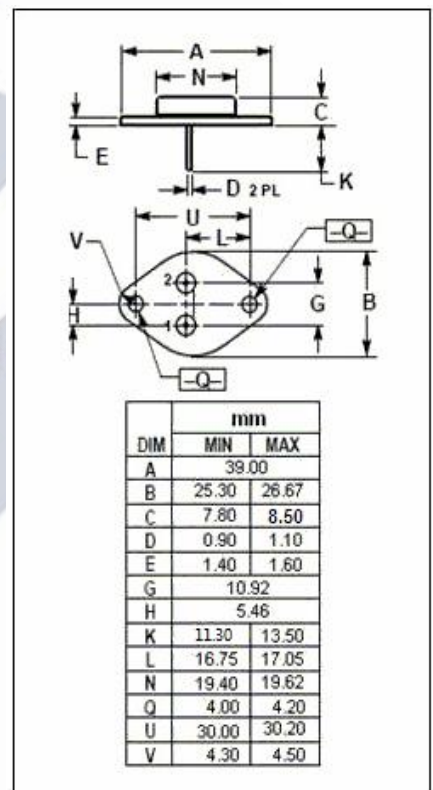
FEATURES

- 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



ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

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	°C
T _{stg}	Storage temperature	-55~150	°C



• ELECTRICAL CHARACTERISTICS

T_j=25°C (V_i= 19V, I_o=0.5A, C_i= 0.33 μ F, C_o= 0.1 μ F unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _o	Output Voltage	V _{in} =19V; I _o =500mA	11.5	12.5	V
ΔV _v	Line Regulation	14.5V ≤ V _{in} ≤ 30V; I _o =500mA		120	mV
ΔV _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
Δ _{b1}	Quiescent Current Change	5.0mA ≤ I _o ≤ 1.0A; V _{in} =19V		0.5	mA
Δ _{b2}	Quiescent Current Change	15V ≤ V _{in} ≤ 30V; I _o =500mA		0.8	mA