isc Three Terminal Positive Voltage Regulator 78H05

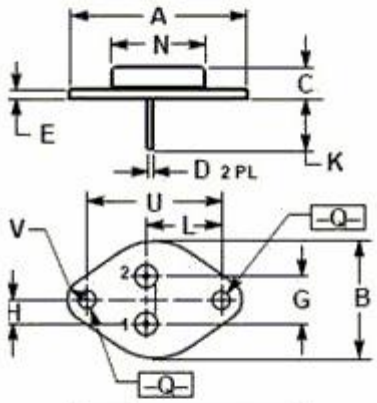
FEATURES

- Output current in excess of 5.0A
- Output voltage of 5V
- Internal thermal overload protection
- Output transition Safe-Area compensation
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

PIN: 1. Input
2. Ground
3. Output
TO-3 Package

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	RATING	UNIT
V_i	DC input voltage	12	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	℃



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

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance, Junction to Case	2.5	℃/W

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• ELECTRICAL CHARACTERISTICS

T_j=25℃ (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}=8V; I_O=10mA	4.95	5.05	V
V_O	Output Voltage	V_{in}=6.5V to 10V;0≤ I_O≤$I_{FULLLOAD}$	4.925	5.075	V
$\triangle V_V$	Line Regulation	6.5V≤V_{in}≤10V; I_O=10mA		6	mV
$\triangle V_i$	Load Regulation	V_{in}=8V; 0≤I_O≤$I_{FULLLOAD}$		20	mV
I_b	Quiescent Current	V_{in}=10V		10	mA