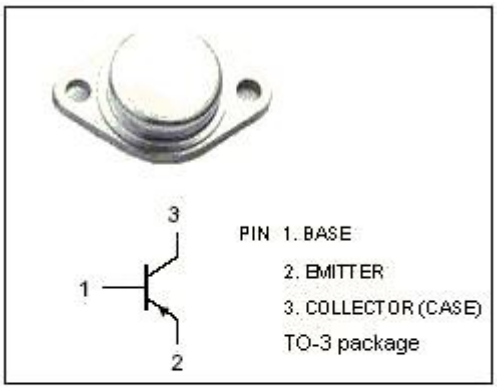
isc Silicon PNP Power Transistor AD149

DESCRIPTION

- Wide Area of Safe Operation
- DC Current Gain-
  : h_{FE}=30-100@I_C= -1A
- Collector-Emitter Saturation Voltage-
  : $V_{CE(sat)}$= -0.7V(Max)@ I_C= -3A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

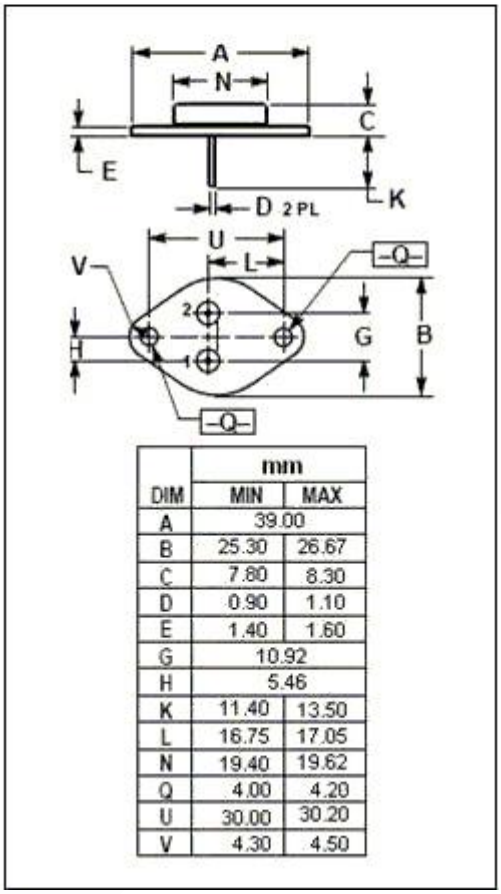
- Designed for general-purpose power switch and amplifier, consumer and industrial applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-50	V
V_{CEO}	Collector-Emitter Voltage	-50	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-3.5	A
P_C	Collector Power Dissipation @T_C=25℃	30	W
T_J	Junction Temperature	200	℃
T_{stg}	Storage Temperature	-55~200	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance,Junction to Case	1.52	℃/W



DIM	mm MIN	MAX
A	39.00	
B	25.30	26.67
C	7.80	8.30
D	0.90	1.10
E	1.40	1.60
G	10.92	
H	5.46	
K	11.40	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

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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I_C= -100mA ; I_B= 0	-50		V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I_C= -1mA ; I_E= 0	-50		V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I_E= -1mA ; I_C= 0	-6		V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -3A; I_B= -0.3A		-0.7	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= -3A; I_B= -0.3A		-1.2	V
I_{CEO}	Collector Cutoff Current	V_{CE}= -50V; I_B= 0		-0.1	mA
I_{CBO}	Collector Cutoff Current	V_{CB}= -50V; I_E= 0		-10	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -7.0V; I_C=0		-10	μA
h_{FE}	DC Current Gain	I_C= -1A ; V_{CE}= -5V	30	150	