

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.

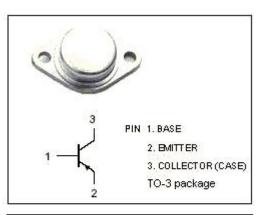
ABSOLUTE MAXIMUM RATINGS(T _a =25℃)

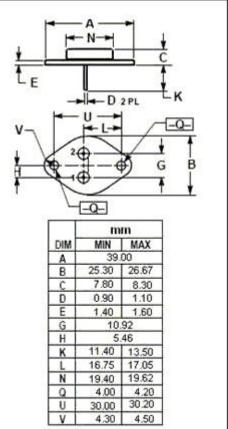
SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	-50	V
V _{CEO}	Collector-Emitter Voltage	-50	V
V_{EBO}	Emitter-Base Voltage	-6	V
lc	Collector Current-Continuous	-3.5	А
Pc	Collector Power Dissipation @Tc=25°C	30	W
TJ	Junction Temperature	200	°C
T _{stg}	Storage Temperature	-55~200	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.52	°C/W

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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	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	Ic= -1A ; Vce= -5V	30	150	

NOTICE:

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