

isc Silicon PNP Power Transistor

BDY82

DESCRIPTION

- Continuous Collector Current-I_C= -4A
- · Collector Power Dissipation-
 - : Pc= 36W @Tc= 25°C
- Complement to Type BDY80
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

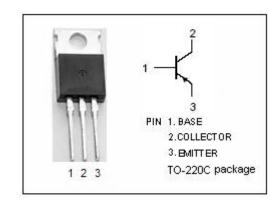
Designed for general purpose switching and amplifier applications.

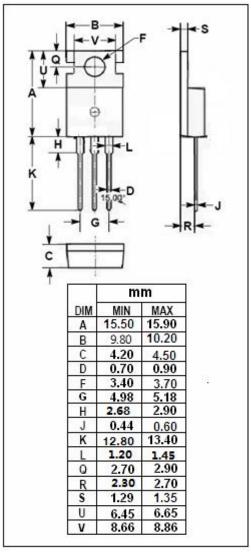
ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-35	V
V _{CEO}	Collector-Emitter Voltage	-35	V
V _{EBO}	Emitter-Base Voltage	-10	V
Ic	Collector Current-Continuous	-4	Α
Ι _Β	Base Current-Continuous	-2	Α
Pc	Collector Power Dissipation@Tc=25°C	36	W
TJ	Junction Temperature 150		$^{\circ}$ C
T _{stg}	Storage Temperature -55~150		${\mathbb C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	3.5	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -30mA; I _B = 0	-35			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -1mA; I _E = 0	-35			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA; I _C = 0	-10			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -1A; I _B = -0.05A			-1.0	V
$V_{BE(on)}$	Base-Emitter On Voltage	I _C = -0.5A; V _{CE} = -5V			-0.9	V
I _{CEO}	Collector Cutoff Current	V _{CE} = -20V; I _B = 0			-10	mA
I _{CBO}	Collector Cutoff Current	V _{CB} = -20V; I _E = 0			-0.2	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-0.1	mA
h _{FE-1}	DC Current Gain	I _C = -0.5A; V _{CE} = -5V	40		240	
h _{FE-2}	DC Current Gain	I _C = -1A; V _{CE} = -5V	20			
fτ	Current Gain-Bandwidth Product	I _C = -0.5A; V _{CE} = -10V		3		MHz

♦ h_{FE-1} Classifications

Α	В	С
40-80	70-140	120-240

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