

isc Silicon PNP Darlington Power Transistor

BDX34B

DESCRIPTION

- Collector-Emitter Sustaining Voltage-: V_{CEO(SUS)}= -80V(Min)
- High DC Current Gain
- : h_{FE}= 750(Min) @I_C= -3A
- Low Collector Saturation Voltage
- : V_{CE(sat)}= -2.5V(Max.)@ I_C= -3A
- Complement to Type BDX33B
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Designed for general purpose amplifier and low speed switching applications.

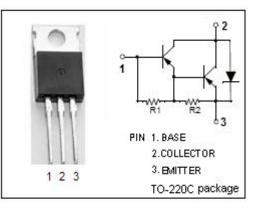
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

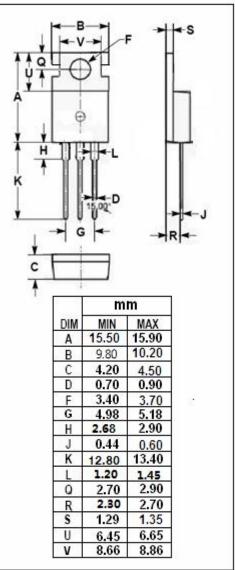
SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-80	v	
V _{CEO}	Collector-Emitter Voltage	-80	v	
V_{EBO}	Emitter-Base Voltage	-5	v	
Ic	Collector Current-Continuous	-10	A	
I _{CM}	Collector Current-Peak	-15	А	
IB	Base Current-Continuous	-0.25	А	
Pc	Collector Power Dissipation @ T_c =25°C	70	w	
TJ	Junction Temperature 150		°C	
T _{stg}	Storage Temperature Range	-65~150	°C	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	1.78	°C/W	

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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -50mA; I _B = 0	-80			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -6mA			-2.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -3A; V _{CE} = -3V			-2.5	V
І _{сво}	Collector Cutoff Current	V _{CB} = -80V; I _E = 0			-0.2	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = -40V; I _B = 0			-0.5	mA
Іево	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-10	mA
h _{FE}	DC Current Gain	I _C = -3A; V _{CE} = -3V	750			

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