

isc Silicon PNP Darlington Power Transistor

BDX34C

DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= -100V(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 BDX33C
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



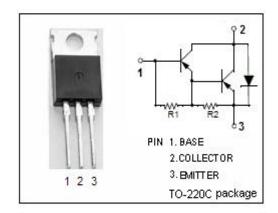
 Designed for general purpose amplifier and low speed switching applications.

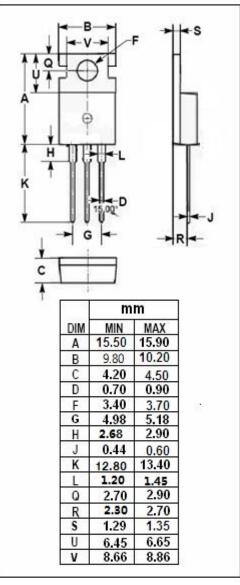
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-100	V
Vceo	Collector-Emitter Voltage	-100	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current-Continuous	-10	А
Ісм	Collector Current-Peak	-15	А
I _B	Base Current-Continuous	se Current-Continuous -0.25	
Pc	Collector Power Dissipation @ T _C =25°C	70	W
TJ	Junction Temperature 150		$^{\circ}$ C
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}\!$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.78	°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 = -50mA; I _B = 0	-100			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
I _{CBO}	Collector Cutoff Current	V _{CB} = -100V; I _E = 0			-0.2	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = -50V; I _B = 0			-0.5	mA
І _{ЕВО}	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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