

isc Silicon PNP Darlington Power Transistor

BDX34

DESCRIPTION

- Collector-Emitter Sustaining Voltage-: V_{CEO(SUS)}= -45V(Min)
- High DC Current Gain
- : h_{FE}= 750(Min) @I_C= -4A
- Low Collector Saturation Voltage
- : V_{CE(sat)}= -2.5V(Max.)@ I_C= -4A
- Complement to Type BDX33
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

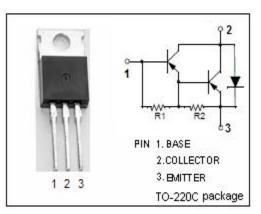
• Designed for general purpose amplifier and low speed switching applications.

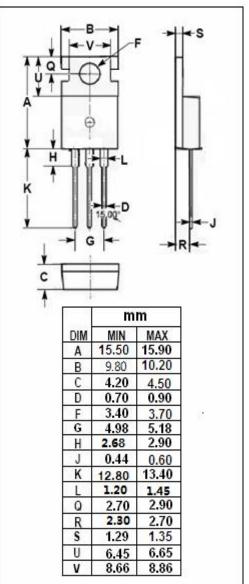
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{сво}	Collector-Base Voltage -45		V
VCEO	Collector-Emitter Voltage	-45	V
Vebo	Emitter-Base Voltage	-5	V
lc	Collector Current-Continuous -10		А
Ісм	Collector Current-Peak	-15	А
I _B	Base Current-Continuous -0.2		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





isc website: www.iscsemi.com

¹ *isc & iscsemi* is registered trademark



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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	-45			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -4A; I _B = -8mA			-2.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -4A ; V _{CE} = -3V			-2.5	V
І _{сво}	Collector Cutoff Current	V _{CB} = -45V; I _E = 0			-0.2	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = -22V; 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 = -4A; V _{CE} = -3V	750			

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