

isc Silicon PNP Darlington Power Transistor

BD680A

DESCRIPTION

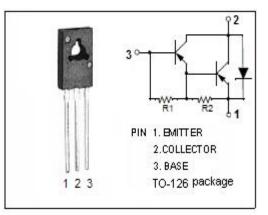
Collector–Emitter Breakdown Voltage—

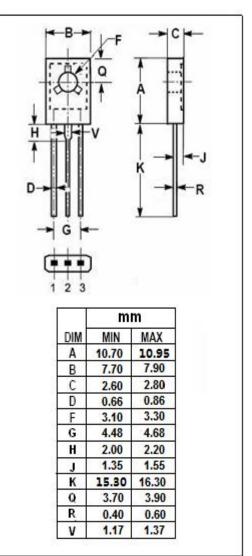
: $V_{(BR)CEO}$ = -80V

- DC Current Gain—
 - : h_{FE} = 750(Min) @ I_C= -2A
- Complement to Type BD679A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Designed for use as output devices in complementary general-purpose amplifier 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 _{EBO}	Emitter-Base Voltage -5		V
lc	Collector Current-Continuous	-4	А
I _B	Base Current	-0.1	А
Pc	Collector Power Dissipation T_c =25 °C	40	W
Ti	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

THERMAL CHARACTERISTICS

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



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ELECTRICAL CHARACTERISTICS

$T_{\text{c}}\text{=}25^{\circ}\!\!\!^{\circ}\!\!^{\circ}\!\!^{\circ}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -50mA; I _B = 0	-80		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -2A; I _B = -40mA		-2.8	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -2A; V _{CE} = -3V		-2.5	V
I _{CEO}	Collector Cutoff Current	V _{CE} = -80V; I _B = 0		-0.5	mA
Ісво	Collector Cutoff Current	V _{CB} = -80V; I _E = 0 V _{CB} = -80V; I _E = 0;T _C = 100°C		-0.2 -2.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0		-2.0	mA
hfe	DC Current Gain	Ic= -2A ; Vce= -3V	750		

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