

isc Silicon NPN Darlington Power Transistor

BD679A

DESCRIPTION

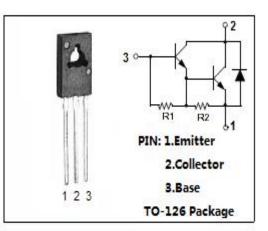
Collector–Emitter Breakdown Voltage—

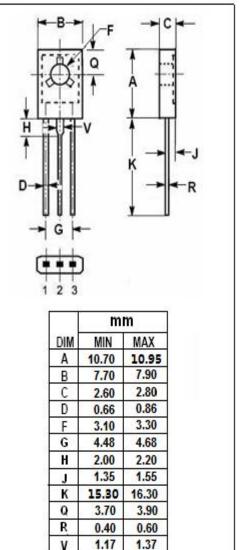
: V_{(BR)CEO} = 80V

- DC Current Gain—
 - : h_{FE} = 750(Min) @ I_C= 2 A
- Complement to Type BD680A
- 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	
V _{EBO}	Emitter-Base Voltage	5	V	
lc	Collector Current-Continuous	4	А	
I _{CP}	*Collector Current (Pulse)	6	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

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	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℃		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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