

isc Silicon PNP Darlington Power Transistor

BD678

DESCRIPTION

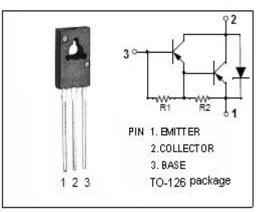
Collector–Emitter Breakdown Voltage—

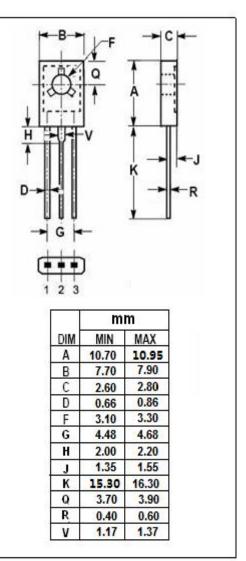
: V_{(BR)CEO} = -60

- DC Current Gain—
- : h_{FE} = 750(Min) @ I_C= -1.5 A
- Complement to Type BD677
- 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)

PARAMETER	VALUE	UNIT					
Collector-Base Voltage	-60	V					
Collector-Emitter Voltage	-60	V					
Emitter-Base Voltage	-5	V					
Collector Current-Continuous	-4	А					
Base Current	-0.1	А					
Collector Power Dissipation T_c =25 °C	40	W					
Junction Temperature 150		°C					
Storage Temperature Range	-55~150	°C					
	PARAMETER Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Collector Current-Continuous Base Current Collector Power Dissipation Tc=25°C Junction Temperature	PARAMETERVALUECollector-Base Voltage-60Collector-Emitter Voltage-60Emitter-Base Voltage-5Collector Current-Continuous-4Base Current-0.1Collector Power Dissipation Tc=25°C40Junction Temperature150					

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.13	°C/W



isc Silicon PNP Darlington Power Transistor

BD678

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -50mA; I _B = 0	-60		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -1.5A; I _B = -30mA		-2.5	V
V _{BE} (on)	Base-Emitter On Voltage	I _C = -1.5A; V _{CE} = -3V		-2.5	V
I _{CEO}	Collector Cutoff Current	V _{CE} = -60V; I _B = 0		-0.5	mA
Ісво	Collector Cutoff Current	V _{CB} = -60V; I _E = 0 V _{CB} = -60V; 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= -1.5 A ; V _{CE} = -3V	750		

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.