

isc Silicon PNP Darlington Power Transistor

BD676A

DESCRIPTION

- Collector–Emitter Breakdown Voltage—
: $V_{(BR)CEO} = -45\text{ V}$
- DC Current Gain—
: $h_{FE} = 750(\text{Min}) @ I_C = -2\text{ A}$
- Complement to Type BD675A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

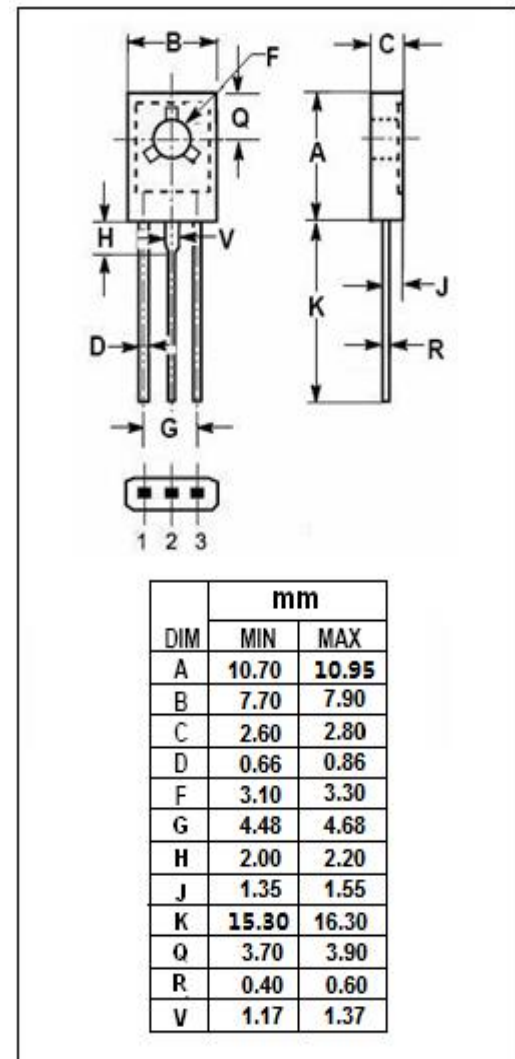
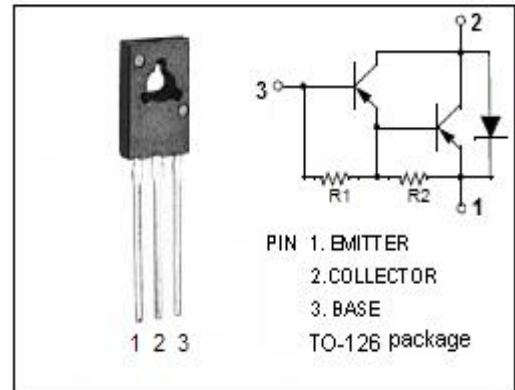
- Designed for use as output devices in complementary general-purpose amplifier applications.

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-45	V
V_{CEO}	Collector-Emitter Voltage	-45	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-4	A
I_B	Base Current	-0.1	A
P_C	Collector Power Dissipation $T_C=25^\circ\text{C}$	40	W
T_j	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	3.13	$^\circ\text{C/W}$



isc Silicon PNP Darlington Power Transistor**BD676A****ELECTRICAL CHARACTERISTICS****T_c=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -50mA; I _B = 0	-45		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} = -45V; I _B = 0		-0.5	mA
I _{CBO}	Collector Cutoff Current	V _{CB} = -45V; I _E = 0 V _{CB} = -45V; 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
h _{FE}	DC Current Gain	I _C = -2 A ; V _{CE} = -3V	750		

NOTICE:

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