

isc Silicon NPN Darlington Power Transistor

BD677A

DESCRIPTION

- Collector-Emitter Breakdown Voltage-
- $: V_{(BR)CEO} = 60V$
- DC Current Gain-
 - : h_{FE} = 750(Min) @ I_C= 2 A
- · Complement to Type BD678A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

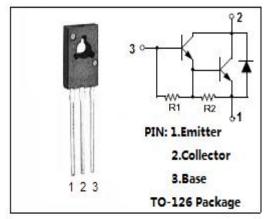
 Designed for use as output devices in complementary general-purpose amplifier applications.

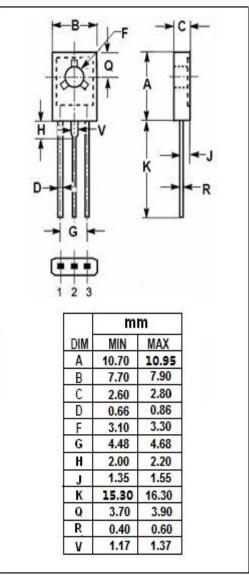


SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	60	V
V _{EBO}	Emitter-Base Voltage 5		V
Ic	Collector Current-Continuous 4		Α
I _{CP}	*Collector Current (Pulse)	6	Α
I _B	Base Current	0.1	Α
Pc	Collector Power Dissipation $T_C=25^{\circ}C$ 40		W
Ti	Junction Temperature 150		${\mathbb C}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}\!$

THERMAL CHARACTERISTICS

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







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

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 = 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} = 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°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		

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