

isc Silicon NPN Darlington Power Transistor

BD675A

DESCRIPTION

- Collector-Emitter Breakdown Voltage-
- $: V_{(BR)CEO} = 45 \text{ V}$
- DC Current Gain-
 - : h_{FE} = 750(Min) @ I_C= 2 A
- · Complement to Type BD676A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

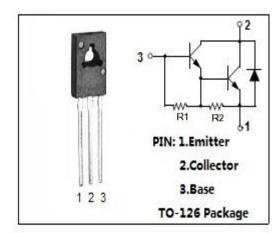
• Designed for use as output devices in complementary general-purpose amplifier applications.

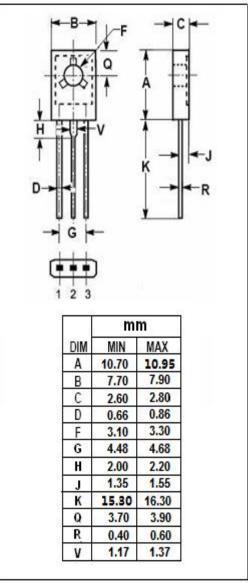
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	45	V
V _{CEO}	Collector-Emitter Voltage	Oltage 45	
V _{EBO}	Emitter-Base Voltage	ge 5	
Ic	Collector Current-Continuous	4	Α
I _{CP}	*Collector Current (Pulse)	6	Α
l _Β	Base Current	0.1	Α
Pc	Collector Power Dissipation T_C =25 $^{\circ}$ C	40	W
Ti	Junction Temperature	150	$^{\circ}\! \mathbb{C}$
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	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
hfe	DC Current Gain	I _C = 2 A; V _{CE} = 3V	750		

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