

isc Silicon NPN Darlington Power Transistor

BD679

DESCRIPTION

- Collector–Emitter Breakdown Voltage—
 - $: V_{(BR)CEO} = 80V$
- DC Current Gain-
 - : $h_{FE} = 750(Min) @ I_{C} = 1.5 A$
- Complement to Type BD680
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

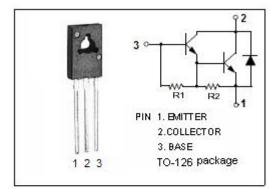
• Designed for use as output devices in complementary general-purpose amplifier applications.

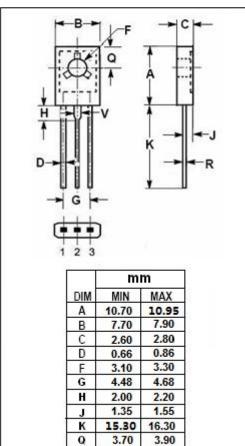
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	80	V	
V_{CEO}	Collector-Emitter Voltage	80	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	4	Α	
l _Β	Base Current	0.1	Α	
Pc	Collector Power Dissipation T_c =25 $^{\circ}$ C	40	W	
Ti	unction Temperature 150		$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	℃	

THERMAL CHARACTERISTICS

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





0.40



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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

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 = 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} = 80V; I _B = 0		0.5	mA
I _{CBO}	Collector Cutoff Current	V _{CB} = 80V; I _E = 0 V _{CB} = 80V; I _E = 0;T _C = 100℃		0.2 2.0	mA
ІЕВО	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		2.0	mA
h _{FE-1}	DC Current Gain	I _C = 50m A ; V _{CE} = 3V	750		
h _{FE-2}	DC Current Gain	I _C = 1.5 A; V _{CE} = 3V	750		
h _{FE-3}	DC Current Gain	Ic= 4 A ; Vc== 3V	1000		

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