

isc Silicon PNP Darlington Power Transistor

DESCRIPTION

- Collector-Emitter Breakdown Voltage-
- $: V_{(BR)CEO} = -100V$
- DC Current Gain-
 - : $h_{FE} = 750(Min) @ I_{C} = -1.5 A$
- Complement to Type BD681
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

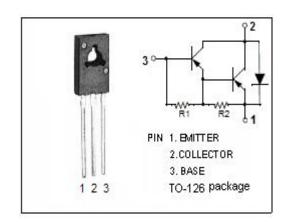
 Designed for use as output devices in complementary general-purpose amplifier applications.

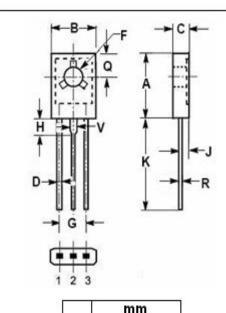
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-100	V	
V_{CEO}	Collector-Emitter Voltage	-100	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	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	

THERMAL CHARACTERISTICS

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





	mm	
DIM	MIN	MAX
Α	10.70	10.95
В	7.70	7.90
C	2.60	2.80
D	0.66	0.86
F	3.10	3.30
G	4.48	4.68
Н	2.00	2.20
J	1.35	1.55
K	15.30	16.30
Q	3.70	3.90
R	0.40	0.60
٧	1.17	1.37



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BD682

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	-100		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} = -100V; I _B = 0		-0.5	mA
Ісво	Collector Cutoff Current	V _{CB} = -100V; I _E = 0 V _{CB} = -100V; 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	Ic= -1.5 A; V _{CE} = -3V	750		



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