



isc Silicon PNP Darlington Power Transistor

DESCRIPTION

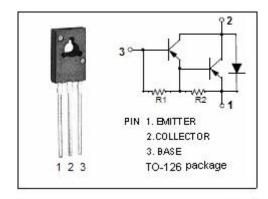
- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= -40V(Min)
- · High DC Current Gain-
- : h_{FE} = 1000(Min)@ (V_{CE} = -3V, I_{C} = -0.5A)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

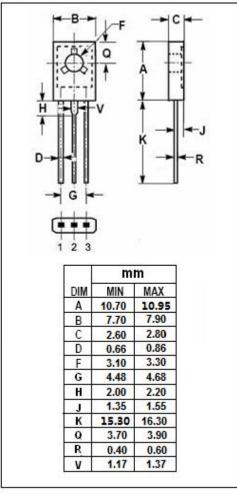
APPLICATIONS

 Designed for general-purpose amplifier and low-speed switching applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-40	V	
Vceo	Collector-Emitter Voltage	-40	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
lc	Collector Current-Continuous	-2	Α	
Ісм	Collector Current-Peak	-3	Α	
I _B	Base Current	-0.1	Α	
Pc	Collector Power Dissipation $T_C=25^{\circ}C$	5	W	
Ti	Junction Temperature	150	$^{\circ}\mathbb{C}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C	







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2SB786

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBO L	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	Ic= -10mA; I _B = 0	-40			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -2mA; I _C = 0	-5			V
V _{(BR)CBO}	Collector-Base breakdown voltage	Ic=-1mA; I _E = 0	-40			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -0.6A; I _B = -1.2mA			-1.5	V
I _{CEO}	Collector Cutoff Current	V _{CE} = -40V; I _B = 0			-0.1	mA
I _{CBO}	Collector Cutoff Current	V _{CB} = -40V; I _E = 0			-1.0	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-2.0	mA
h _{FE}	DC Current Gain	I _C = -0.5A ; V _{CE} = -3V	1000			
f⊤	Current-Gain—Bandwidth Product	I _C =-0.1A ; V _{CE} = -6V		150		MHz
Сов	Output Capacitance	I _E =0; V _{CB} = -10V; f= 1MHz	11			pF

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