

isc Silicon NPN Power Transistor

DESCRIPTION

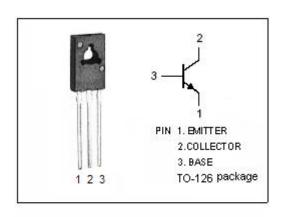
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 120V (Min)
- Wide Area of Safe Operation
- Complement to Type 2SB1086
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

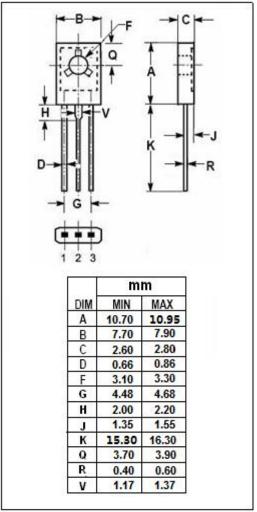
APPLICATIONS

• Designed for low frequency power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	120	V	
V _{CEO}	Collector-Emitter Voltage	120	V	
V _{EBO}	Emitter-Base Voltage	5.0	V	
Ic	Collector Current-Continuous	1.5	Α	
I _{CM}	Collector Current-Peak	3	Α	
P _C	Total Power Dissipation @ T _c =25°C	10	W	
	Total Power Dissipation @ T _a =25℃	1.2	VV	
Тл	Г」 Junction Temperature			
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	





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2SD1563

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA; I _B = 0	120			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 50 μ A; I _E = 0	120			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 50 μ A; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 0.1A			2.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 1A; I _B = 0.1A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 100V; I _E = 0			1.0	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0			1.0	μА
h _{FE}	DC Current Gain	I _C = 0.1A; V _{CE} = 5V	56		390	
f⊤	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 5V		80		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1MHz		20		pF

♦ h_{FE} Classifications

N	Р	Q	R
56-120	82-180	120-270	180-390

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