

isc Silicon PNP Power Transistor
2SB1236
DESCRIPTION

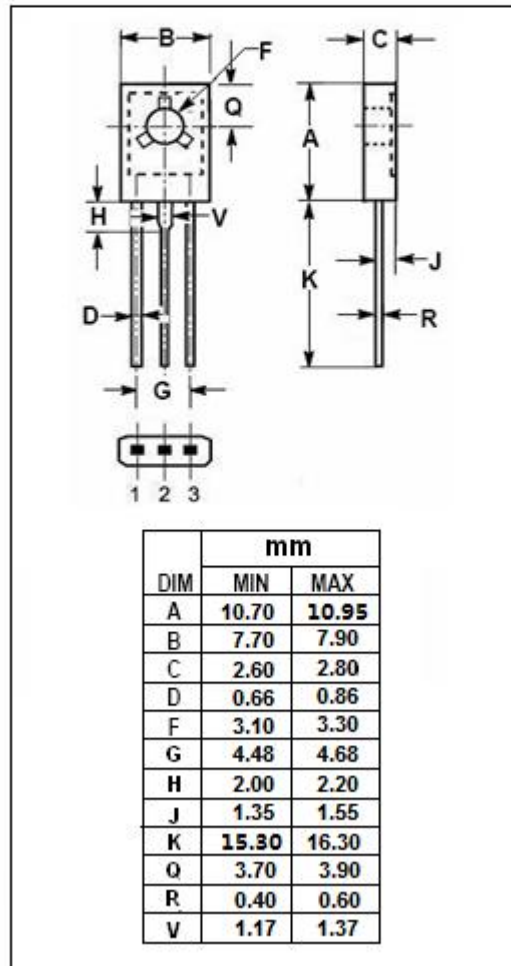
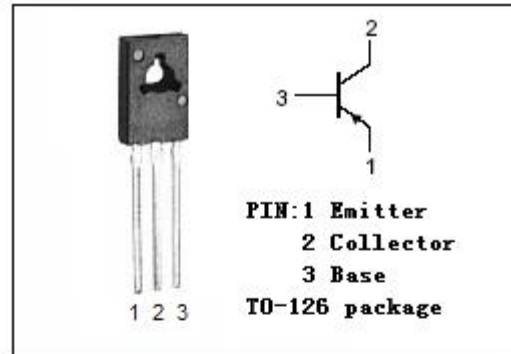
- High breakdown voltage. ($BV_{CEO} = -120V$)
- Low collector output capacitance.
- High transition frequency. ($f_T = 50MHz$)
- Complement to Type 2SD1857
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for audio amplifier, voltage regulator, and general purpose power amplifiers.

ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-120	V
V_{CEO}	Collector-Emitter Voltage	-120	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_c	Collector Current-Continuous	-1.5	A
I_{CP}	Collector Current-Pulse	-3	A
P_c	Collector Power Dissipation	10	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -1A; I _B = -0.1A			-2	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	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0			-1.0	μ A
h _{FE-1}	DC Current Gain	I _C = -0.1A; V _{CE} = -5V	120		390	
f _T	Current-Gain—Bandwidth Product	I _C = -0.1A; V _{CE} = -5V		50		MHz
C _{OB}	Output Capacitance	I _E =0; V _{CB} = -10V, f _{test} = 1MHz		30		pF

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