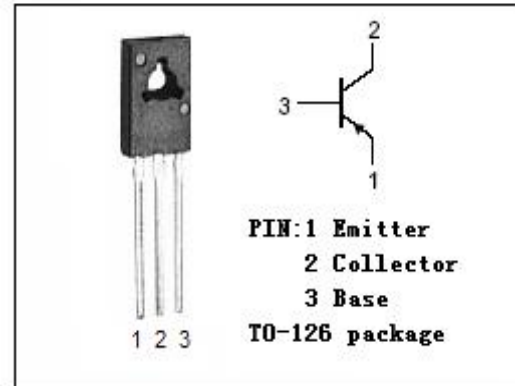


isc Silicon PNP Power Transistors
2SB1436
DESCRIPTION

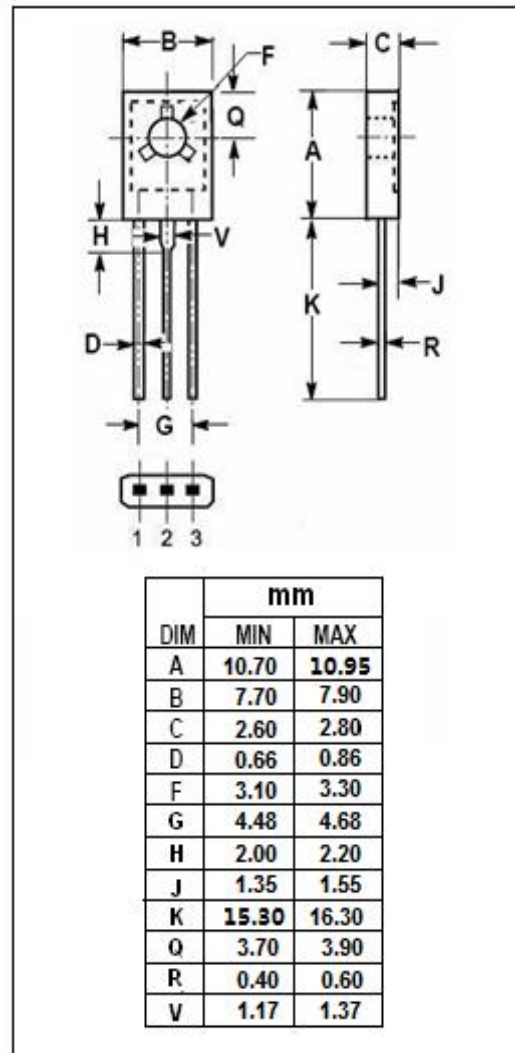
- Low Collector Saturation Voltage
- High Power Dissipation-
: $P_C = 5W(\text{Max})@T_C=25^\circ\text{C}$
- Complement to Type 2SD2166
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


APPLICATIONS

- Designed for use in output stage of audio amplifier, voltage regulator, DC-DC converter and relay driver.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-30	V
V_{CEO}	Collector-Emitter Voltage	-20	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-5	A
I_{CM}	Collector Current-Pulse	-10	A
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	5	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$



ELECTRICAL CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -50 μA; I _E = 0	-30			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -1mA; I _B = 0	-20			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -50 μA; I _C = 0	-6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -4A; I _B = -0.1A			-1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -20V; I _E = 0			-0.5	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-0.5	μA
h _{FE}	DC Current Gain	I _C = -0.5A; V _{CE} = -2V	180		390	
C _{OB}	Output Capacitance	I _E = 0; V _{CB} = -20V; f= 1MHz		60		pF
f _T	Current-Gain—Bandwidth Product	I _E = -50mA; V _{CE} = -6V		120		MHz

Notice:

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