

**isc Silicon PNP Power Transistor**

**2SA1381**

**DESCRIPTION**

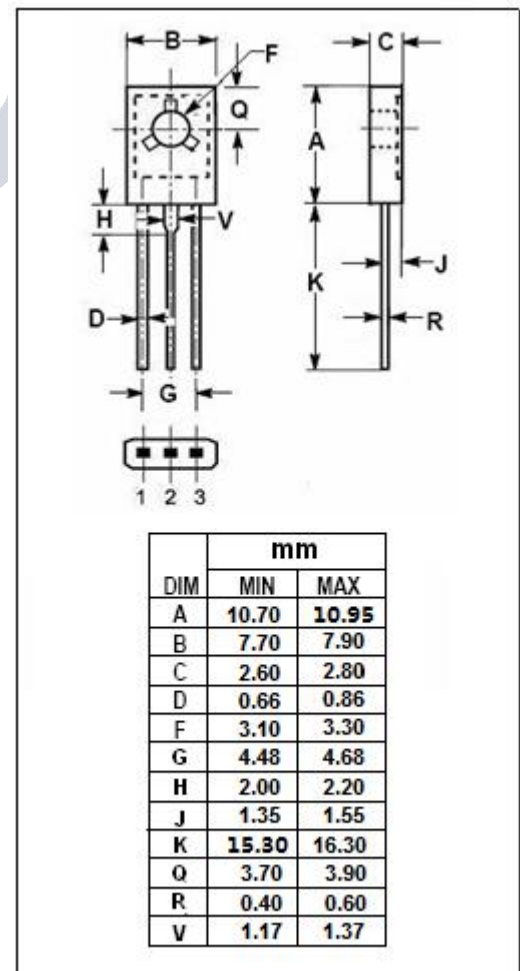
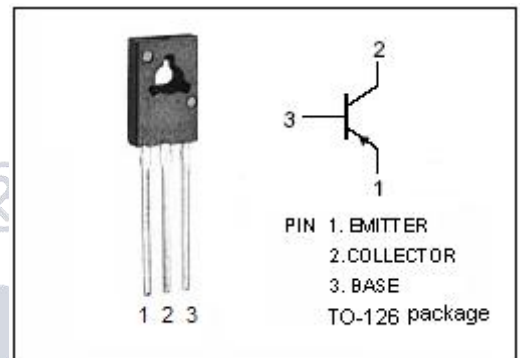
- High voltage
- Low reverse transfer capacitance
- Excellent gain linearity for low THD
- High frequency
- Complement to 2SC3503
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

- Audio voltage amplifier and current source
- CRT display ,video output
- General purpose amplifier

**ABSOLUTE MAXIMUM RATINGS(Ta=25°C)**

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CBO</sub>	Collector-Base Voltage	-300	V
V <sub>CEO</sub>	Collector-Emitter Voltage	-300	V
V <sub>EBO</sub>	Emitter-Base Voltage	-5.0	V
I <sub>C</sub>	Collector Current-Continuous	-100	mA
P <sub>C</sub>	Collector Power Dissipation @ T <sub>a</sub> =25°C	0.7	W
	Total Power Dissipation @ T <sub>C</sub> =25°C	7	
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature Range	-55~150	°C



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## ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}\text{C}$  unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C = -10\text{mA}; I_B = 0$	-300			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -20\text{mA}; I_B = -2\text{mA}$			-0.6	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = -20\text{mA}; I_B = -2\text{mA}$			-1.0	V
$I_{CBO}$	Collector Cutoff Current	$V_{CB} = -200\text{V}; I_E = 0$			-0.1	$\mu\text{A}$
$I_{EBO}$	Emitter Cutoff Current	$V_{EB} = -5\text{V}; I_C = 0$			-0.1	$\mu\text{A}$
$h_{FE}$	DC Current Gain	$I_C = -10\text{mA}; V_{CE} = -10\text{V}$	40		320	

◆  $h_{FE}$  Classifications

C	D	E	F
40-80	60-120	100-200	160-320

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