

isc Silicon PNP Power Transistor

KTA1381

DESCRIPTION

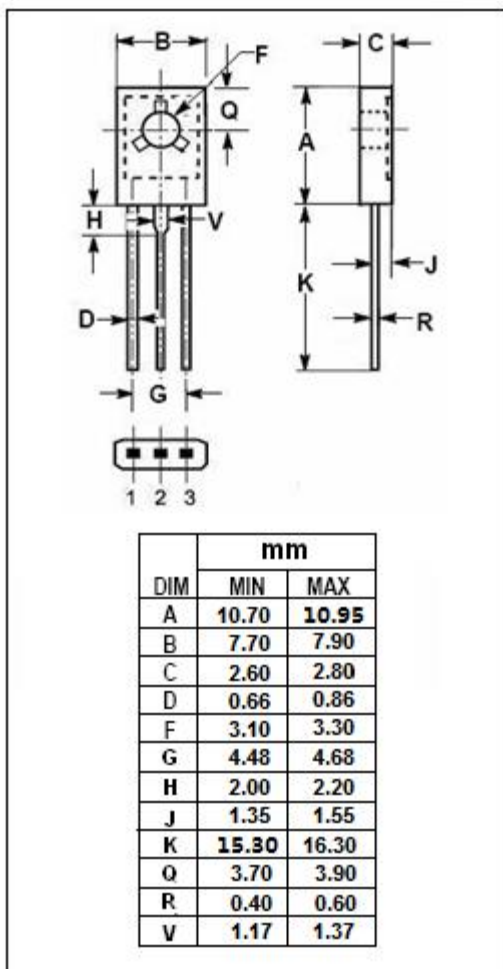
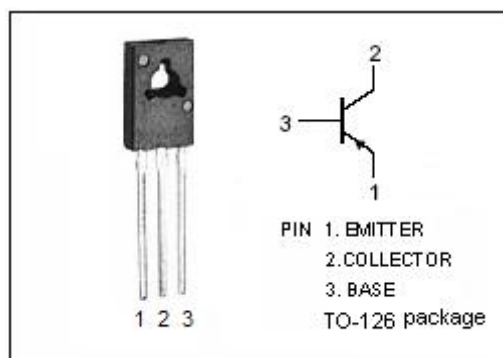
- High voltage
- Low reverse transfer capacitance
- Excellent gain linearity for low THD
- High frequency
- Complement to KTC3503
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

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_{CBO}	Collector-Base Voltage	-300	V
V_{CEO}	Collector-Emitter Voltage	-300	V
V_{EBO}	Emitter-Base Voltage	-5.0	V
I_C	Collector Current-Continuous	-100	mA
P_C	Collector Power Dissipation @ $T_a=25^\circ\text{C}$	1.5	W
	Total Power Dissipation @ $T_C=25^\circ\text{C}$	7	
T_J	Junction Temperature	150	°C
T_{stg}	Storage Temperature Range	-55~150	°C



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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -1mA; I _B = 0	-300			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -20mA; I _B = -2mA			-0.6	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -20mA; I _B = -2mA			-1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -200V; I _E = 0			-0.1	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0			-0.1	μ A
h _{FE}	DC Current Gain	I _C = -10mA; V _{CE} = -10V	60		200	
f _T	Current-Gain—Bandwidth Product	I _C = -10mA; V _{CE} = -30V		150		MHz
C _{OB}	Output Capacitance	I _E = 0; V _{CB} = -30V; f= 1.0MHz		3.1		pF

◆ h_{FE} Classifications

O	Y
60-120	100-200

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