

isc Silicon PNP Power Transistor

2SA754

DESCRIPTION

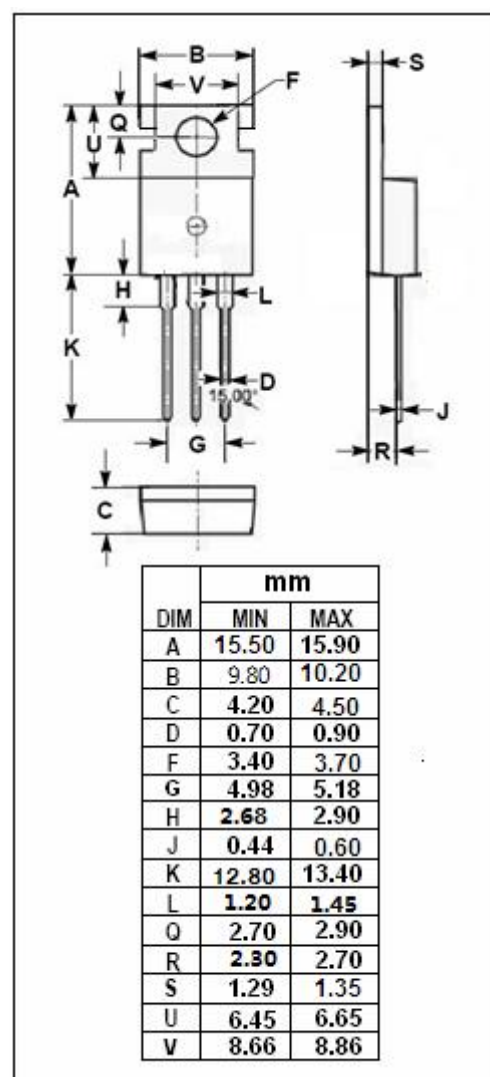
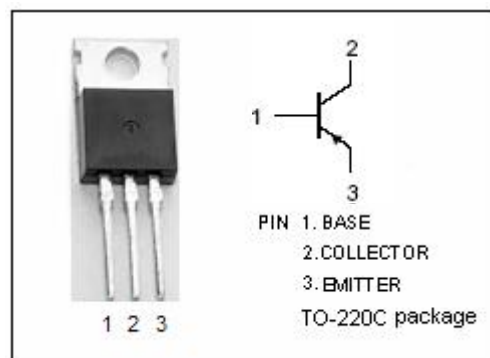
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -50V(\text{Min})$
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = -1.3V(\text{Max.}) @ I_C = -1.5A$
- Good Linearity of h_{FE}
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for low frequency power amplifier applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-50	V
V_{CEO}	Collector-Emitter Voltage	-50	V
V_{EBO}	Emitter-Base Voltage	-4	V
I_C	Collector Current-Continuous	-2	A
P_C	Total Power Dissipation@ $T_C=25^\circ\text{C}$	20	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



isc Silicon PNP Power Transistor**2SA754****ELECTRICAL CHARACTERISTICS****T_c=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -5mA; I _E = 0	-50			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -50mA; R _{BE} = ∞	-50			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -5mA; I _C = 0	-4			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -1.5A; I _B = -0.15A			-1.3	V
V _{BE(on)}	Collector-Emitter On Voltage	I _C = -1A; V _{CE} = -4V			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -20V; I _E = 0			-100	μ A
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -4V	35		200	
h _{FE-2}	DC Current Gain	I _C = -0.1A; V _{CE} = -4V	35			
f _T	Current-Gain—Bandwidth Product	I _C = -0.5A; V _{CE} = -4V		50		MHz

◆ h_{FE-1} Classifications

A	B	C
35-70	50-120	100-200

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