

isc Silicon PNP Power Transistor

2SA743A

DESCRIPTION

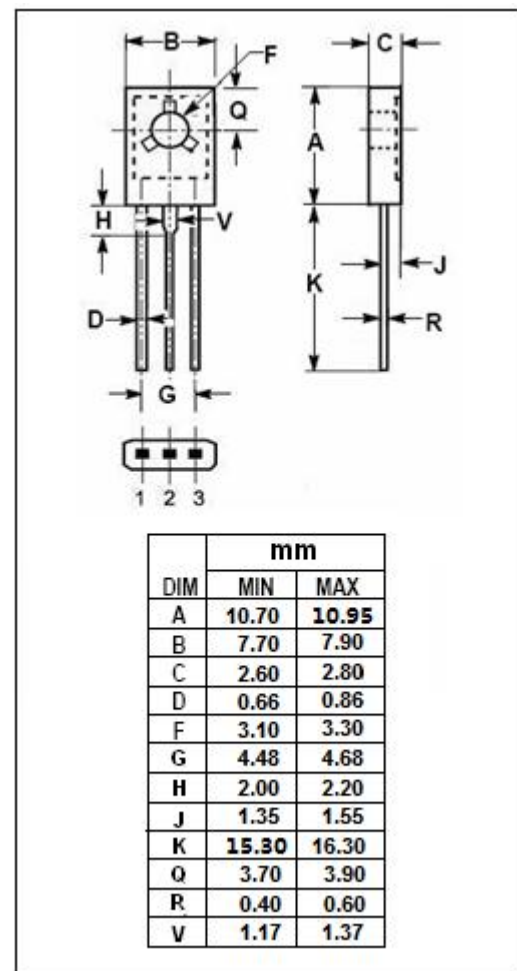
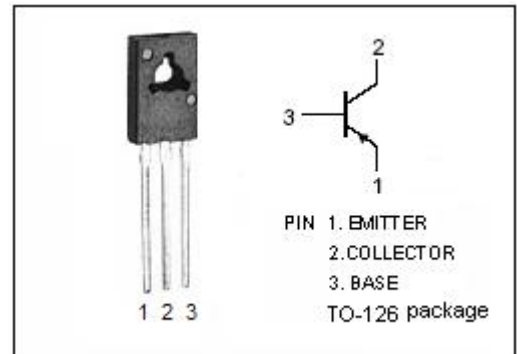
- Good Linearity of h_{FE}
- High Collector-Emitter Breakdown Voltage-
 $V_{(BR)CEO} = -80V$ (Min)
- Complement to Type 2SC1212A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for use in low frequency power amplifier applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-80	V
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-4	V
I_C	Collector Current-Continuous	-1	A
P_C	Collector Power Dissipation @ $T_a=25^\circ C$	0.75	W
	Total Power Dissipation @ $T_C=25^\circ C$	8	
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



isc Silicon PNP Power Transistor**2SA743A****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 = -1mA; I _E = 0	-80			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA; R _{BE} = ∞	-80			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA; I _C = 0	-4			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -1A; I _B = -0.1A			-1.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -50mA ; V _{CE} = -4V			-1.0	V
I _{CER}	Collector Cutoff Current	V _{CE} = -80V; R _{BE} = 1k Ω			-20	μ A
h _{FE-1}	DC Current Gain	I _C = -50mA ; V _{CE} = -4V	60		200	
h _{FE-2}	DC Current Gain	I _C = -1A ; V _{CE} = -4V	20			
f _T	Current-Gain—Bandwidth Product	I _C = -30mA ; V _{CE} = -4V		120		MHz

◆ h_{FE-1} Classifications

B	C
60-120	100-200

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