

isc Silicon PNP Power Transistor
2SA843
DESCRIPTION

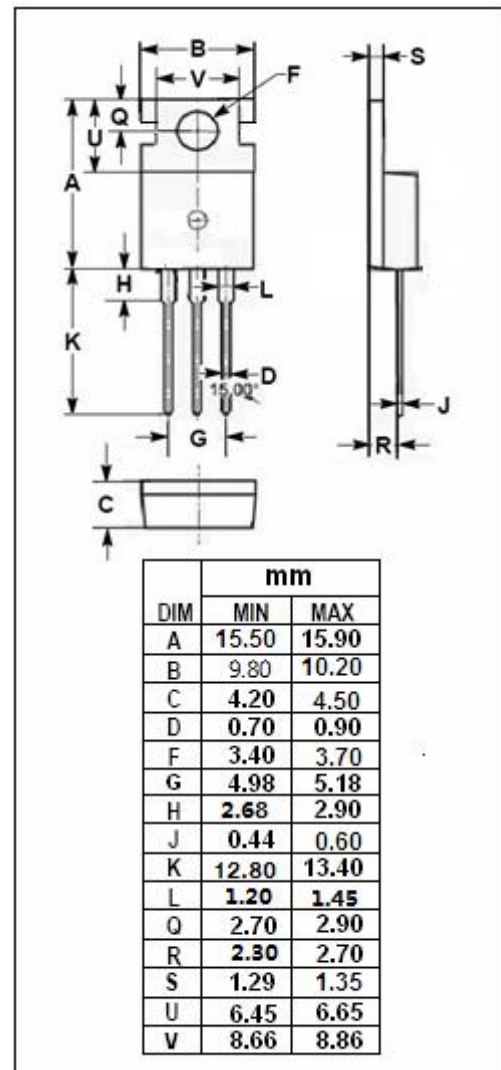
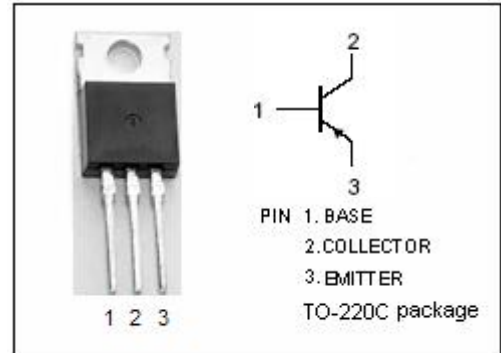
- Collector-Emitter Breakdown Voltage
: $V_{(BR)CEO} = -150V(\text{Min})$
- DC Current Gain
: $h_{FE} = 60-200 @ I_C = -0.4A$
- Complement to Type 2SC1683
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Audio frequency power amplifier applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-200	V
V_{CEO}	Collector-Emitter Voltage	-150	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-0.5	A
I_{CM}	Collector Current-Peak	-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	$^\circ\text{C}$



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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 = -5mA; I _B = 0	-150			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -0.5mA; I _E = 0	-200			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -0.5mA; I _C = 0	-5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -0.5A; I _B = -50mA			-1.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -0.4A; V _{CE} = -10V			-1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -200V; I _E = 0			-50	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0			-50	μ A
h _{FE}	DC Current Gain	I _C = -0.4A; V _{CE} = -10V	60		200	

◆ h_{FE} Classifications

P	Q
60-140	85-200

Notice:

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