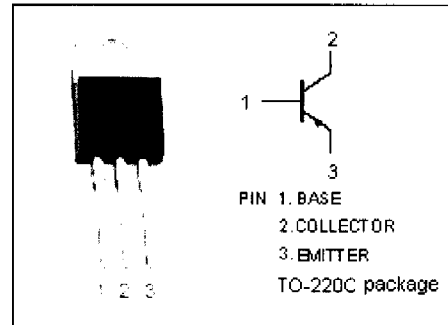


**Silicon PNP Power Transistor**

**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

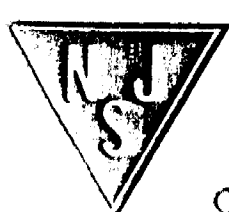
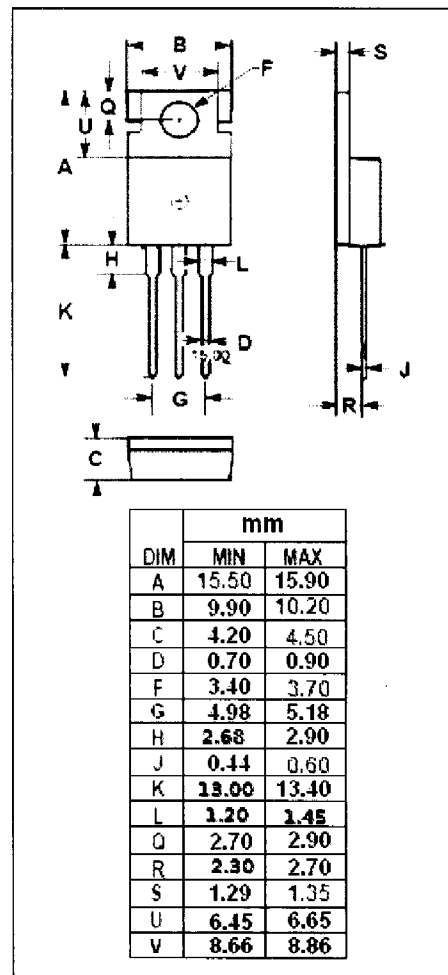


**APPLICATIONS**

- 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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# Silicon PNP Power Transistor

# 2SA843

## 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	$I_C = -5\text{mA}; I_B = 0$	-150			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	$I_C = -0.5\text{mA}; I_E = 0$	-200			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E = -0.5\text{mA}; I_C = 0$	-5			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -0.5\text{A}; I_B = -50\text{mA}$			-1.0	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C = -0.4\text{A}; V_{CE} = -10\text{V}$			-1.0	V
$I_{CBO}$	Collector Cutoff Current	$V_{CB} = -200\text{V}; I_E = 0$			-50	$\mu\text{A}$
$I_{EBO}$	Emitter Cutoff Current	$V_{EB} = -4\text{V}; I_C = 0$			-50	$\mu\text{A}$
$h_{FE}$	DC Current Gain	$I_C = -0.4\text{A}; V_{CE} = -10\text{V}$	60		200	

### ◆ $h_{FE}$ Classifications

P	Q
60-140	85-200