

isc Silicon PNP Power Transistor
FJA4210
DESCRIPTION

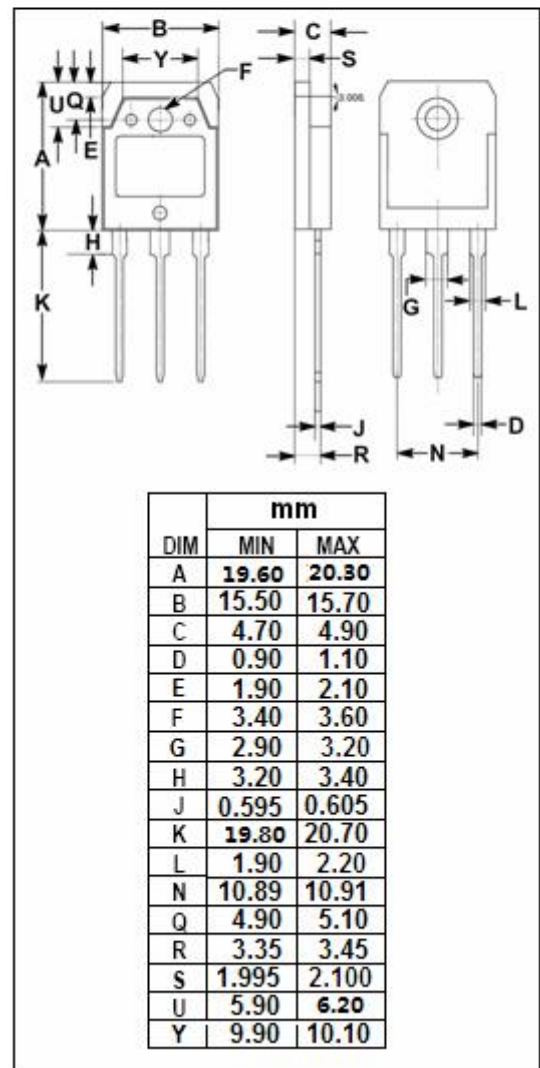
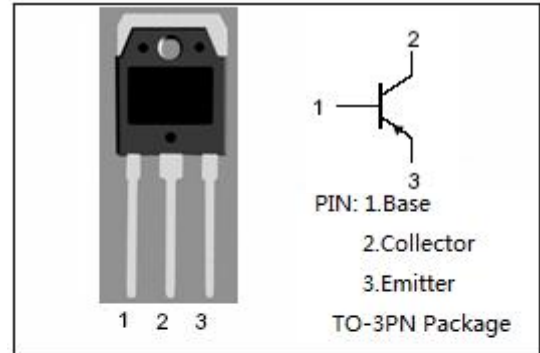
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -140V(\text{Min})$
- DC Current Gain-
: $h_{FE} = 50(\text{Min}) @ I_C = -3A$
- Complement to Type FJA4310
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for audio and general purpose 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	-140	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-10	A
I_B	Base Current-Continuous	-1.5	A
P_C	Collector Power Dissipation @ $T_C = 25^\circ\text{C}$	100	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

 T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -50mA; R _{BE} = ∞	-140			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -5mA; I _E = 0	-200			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -5mA; I _C = 0	-6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -0.5A			-0.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -200V; I _E = 0			-10	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -6V; I _C = 0			-10	μA
h _{FE}	DC Current Gain	I _C = -3A; V _{CE} = -4V	50		180	
C _{OB}	Collector Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1MHz		400		pF
f _T	Current-Gain—Bandwidth Product	I _C = -1A; V _{CE} = -5V		30		MHz

◆ h_{FE} Classifications

R	O	Y
50-100	70-140	90-180

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