

isc Silicon PNP Power Transistor

2SA671

DESCRIPTION

- Low Collector Saturation Voltage-
: $V_{CE(SUS)} = -1.0V(Max) @ I_C = -2.0A$
- DC Current Gain
: $h_{FE} = 35-320 @ I_C = -0.5A$
- Complement to Type 2SC1061
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

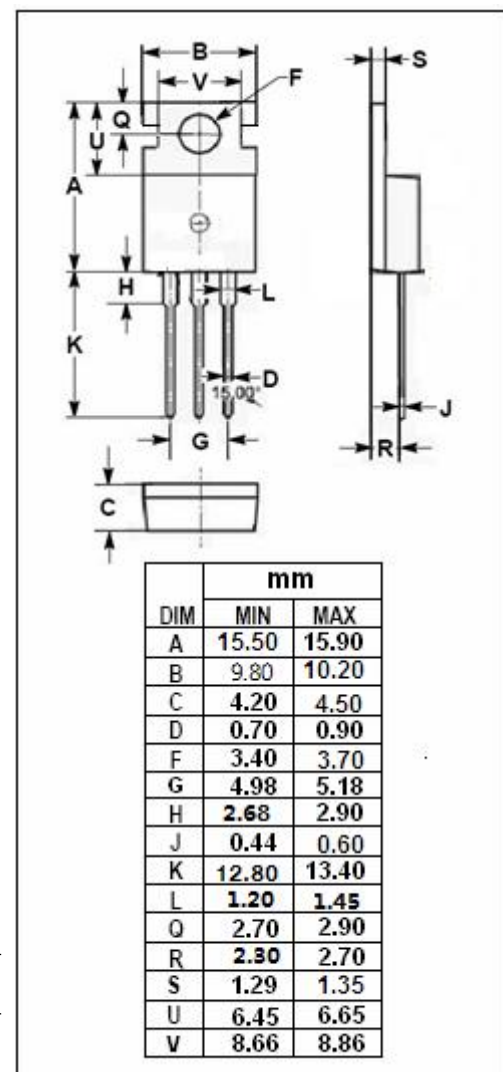
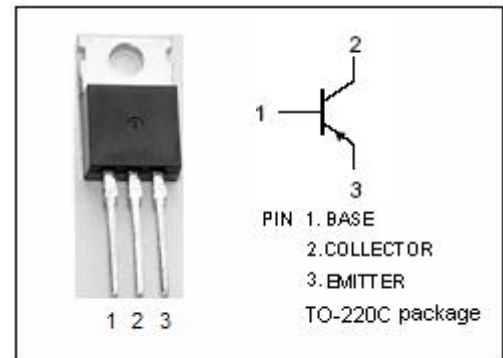
- Designed for use in low frequency power amplifier applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-50	V
V_{CEO}	Collector-Emitter Voltage	-50	V
V_{EBO}	Emitter-Base Voltage	-4	V
I_C	Collector Current-Continuous	-3	A
I_{CM}	Collector Current-Peak	-6	A
I_B	Base Current-Continuous	-0.5	A
P_C	Total Power Dissipation @ $T_C = 25^\circ C$	25	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	5.0	$^\circ C/W$



isc Silicon PNP Power Transistor**2SA671****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 = -50mA ; I _B = 0	-50			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -5mA ; I _C = 0	-7			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -2A; I _B = -0.2A			-1.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -1A ; V _{CE} = -4V			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -25V ; I _E = 0			-100	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0			-100	μ A
h _{FE-1}	DC Current Gain	I _C = -0.1A ; V _{CE} = -4V	35		320	
h _{FE-2}	DC Current Gain	I _C = -1A ; V _{CE} = -4V	35			
f _T	Current-Gain—Bandwidth Product	I _C = -0.5A; V _{CE} = -4V; f _{test} = 1MHz	5			MHz

◆ h_{FE-1} Classifications

A	B	C	D
35-70	60-120	100-200	160-320

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