

isc Silicon NPN Power Transistor
2SC1061
DESCRIPTION

- Low Collector Saturation Voltage-
: $V_{CE(sat)} = 1.0(V)(Max) @ I_C = 2A$
- DC Current Gain-
: $h_{FE} = 35-320 @ I_C = 0.5A$
- Complement to Type 2SA671
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

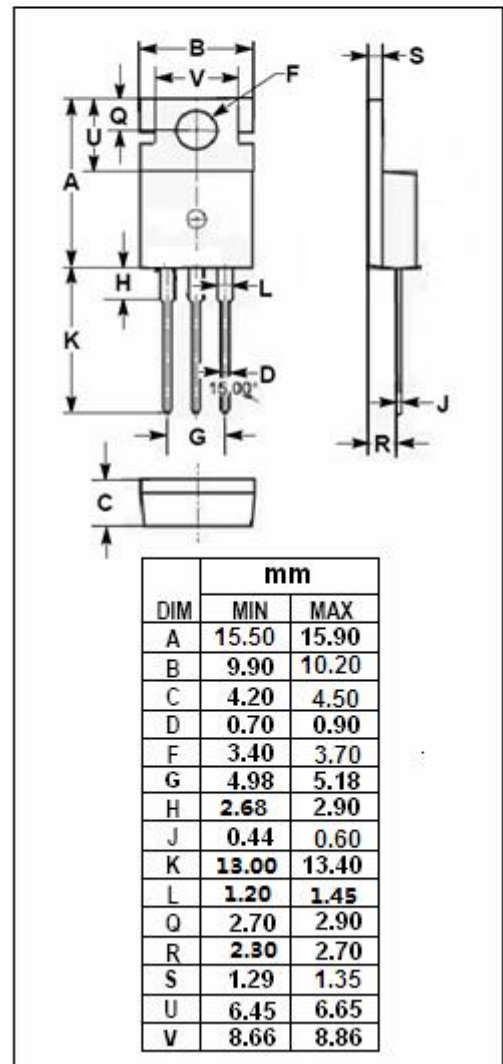
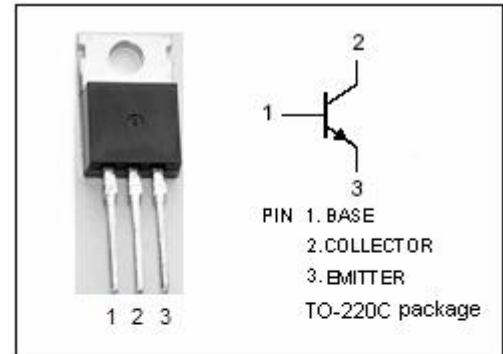
- Designed for use in low frequency power amplifier applications.

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	8	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 NPN Power Transistor**2SC1061****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)CBO}	Collector-Base Breakdown Voltage	I _C = 5mA ; I _E = 0	50			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 5mA ; I _C = 0	4			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} = 20V ; 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			
h _{FE-2}	DC Current Gain	I _C = 1A ; V _{CE} = 4V	35		320	

◆ **h_{FE-2} Classifications**

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

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