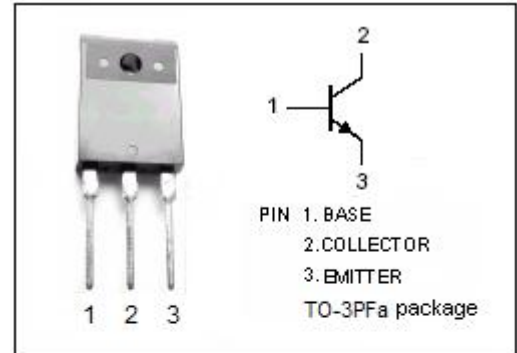


isc Silicon NPN Power Transistor
2SC5411
DESCRIPTION

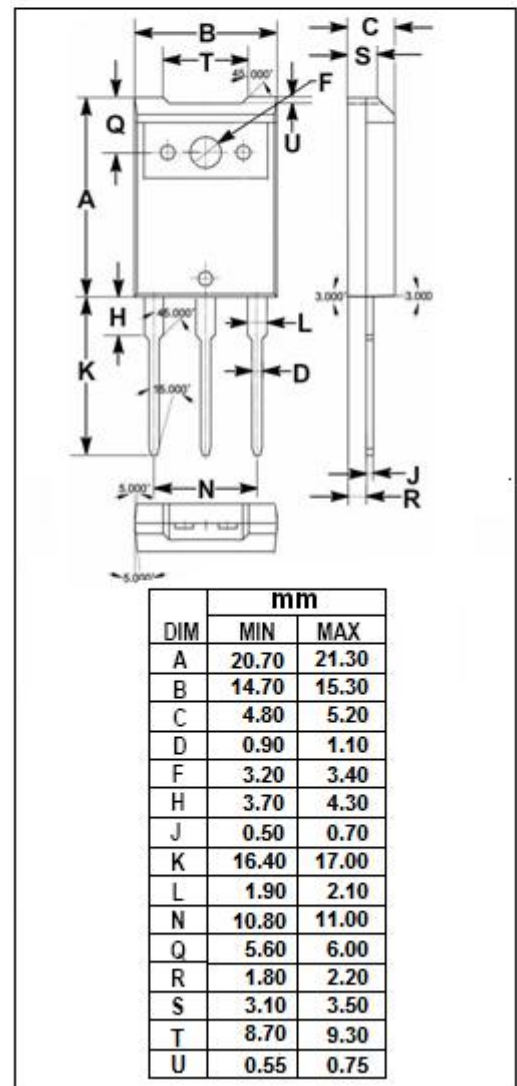
- With TO-3PFa packaging
- High collector-base voltage
- High power dissipation
- Low saturation voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power amplifier applications


ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1500	V
V _{CEO}	Collector-Emitter Voltage	600	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current-Continuous	14	A
I _{CM}	Collector Current-Peak	28	A
I _B	Base Current- Continuous	7	A
P _C	Collector Power Dissipation @ T _C =25°C	60	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



isc Silicon NPN Power Transistor

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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = 0.1mA ; I _E = 0	1500			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA ; I _B = 0	600			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = 0.1mA ; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 11A; I _B = 2.75A			3	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 11A; I _B = 2.75A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 1500V ; I _E = 0			1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			10	μA
h _{FE-1}	DC Current Gain	I _C = 2A ; V _{CE} = 5V	10		40	
h _{FE-2}	DC Current Gain	I _C = 11A ; V _{CE} = 5V	4		8	

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