

isc Silicon PNP Power Transistor

2SC5411

DESCRIPTION

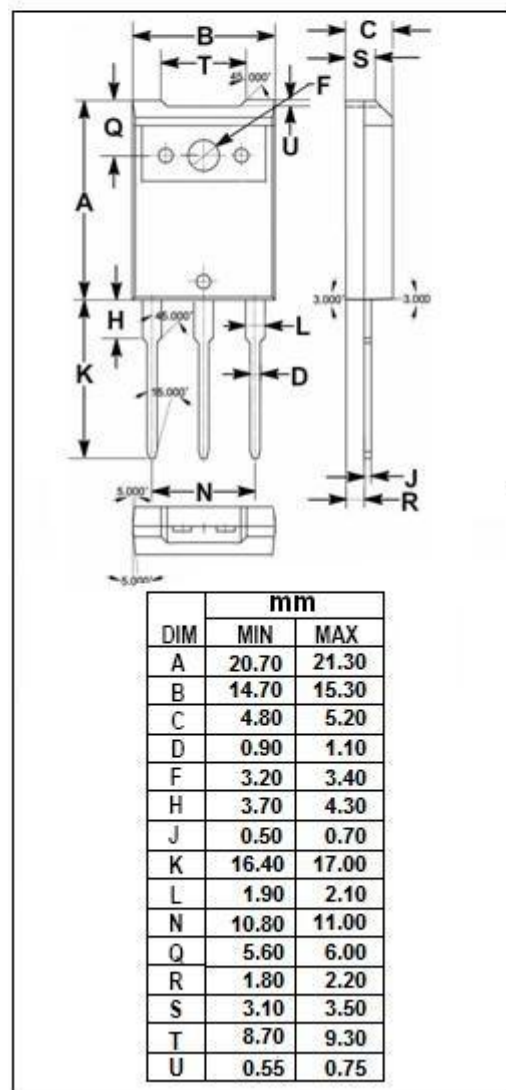
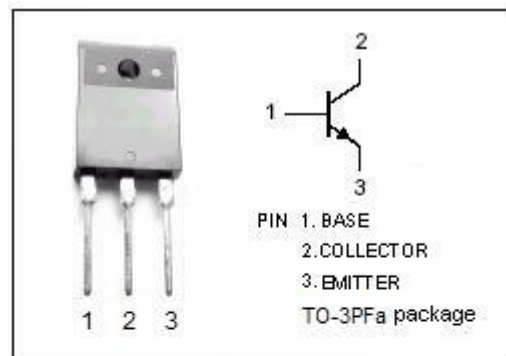
- With TO-3PFa packaging
- High collector-base voltage
- High power dissipation
- Low saturation voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power amplifier applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

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 @ $T_C=25^{\circ}C$	60	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃



isc Silicon PNP Power Transistor**2SC5411****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	μ A
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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