

Silicon PNP Power Transistor

2SB596

DESCRIPTION

- Collector-Emitter Breakdown Voltage

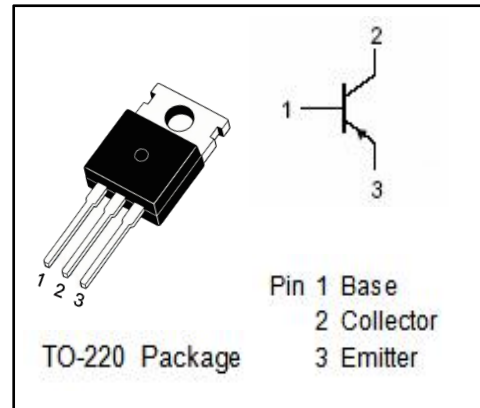
$$-V_{(BR)CEO} = -80V(\text{Min})$$

- Collector-Emitter Saturation Voltage

$$-V_{CE(sat)}: -1.7V(\text{Max}) @ I_C = -3A$$

APPLICATIONS

- For power amplifier

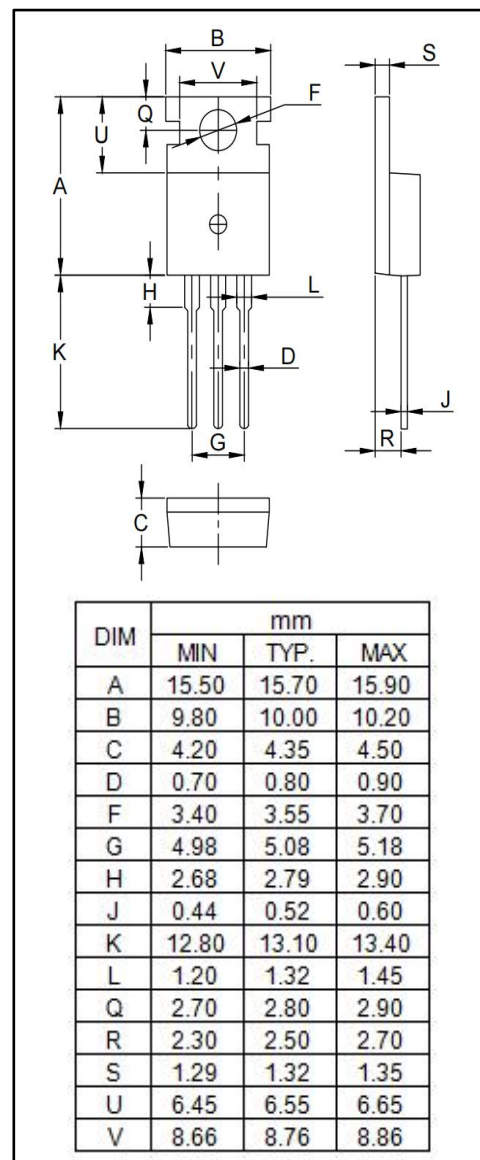


ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-80	V
V _{CEO}	Collector-Emitter Voltage	-80	V
V _{EBO}	Emitter-Base Voltage	-5.0	V
I _C	Collector Current-Continuous	-4	A
I _B	Base Current-Continuous	-0.4	A
P _C	Total Power Dissipation	30	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	4.17	°C/W



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ELECTRICAL CHARACTERISTICS (T_C=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -1mA ; I _E = 0A	-80	--	--	V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA ; I _B = 0A	-80	--	--	V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA ; I _C = 0A	-5.0	--	--	V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -300mA	--	--	-1.7	V
V _{BE(on)}	Base-Emitter On Voltage	V _{CE} = -5V, I _C = -3A	--	--	-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -80V ; I _B = 0A	--	--	-70	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0A	--	--	-100	uA
h _{FE-1*}	DC Current Gain	I _C = -0.5A ; V _{CE} = -5V	40	--	240	--
h _{FE-2}		I _C = -3A ; V _{CE} = -5V	15	--	--	--

HFE-1* CLASSIFICATION

R	O	Y
40-80	70-140	120-240

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