

isc Silicon NPN Power Transistor

ET190

DESCRIPTION

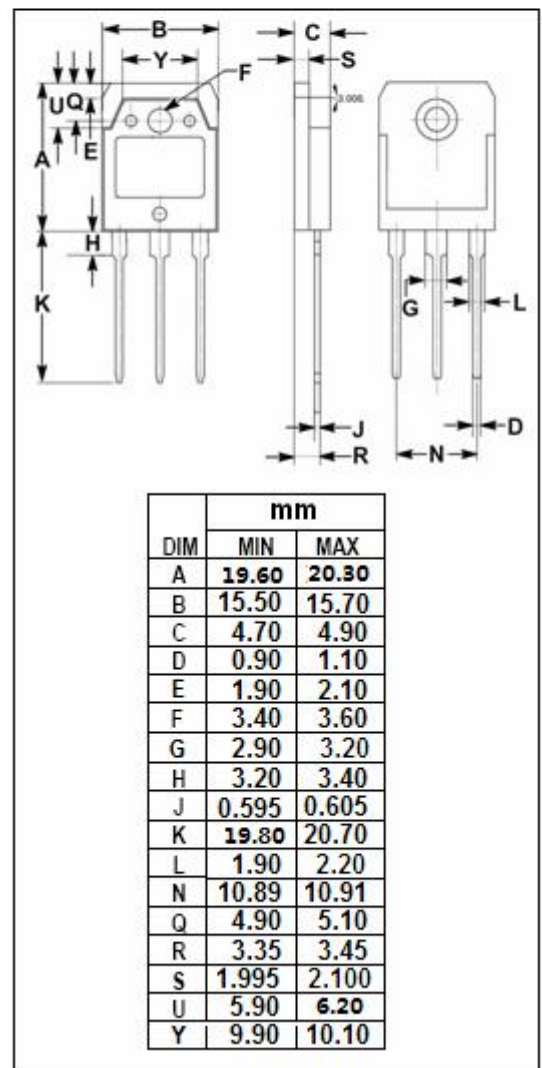
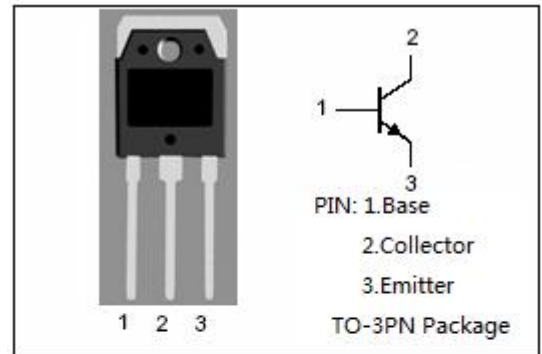
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = 2.0V(\text{Min}) @ I_C = 8A$
- High reliability
- High D.C current gain
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power amplifier applications

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	600	V
V_{CEO}	Collector-Emitter Voltage	600	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	8	A
I_B	Base Current-Continuous	1	A
P_C	Collector Power Dissipation	80	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



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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 = 1mA ; I _B = 0	600			V
V _{(BR)CBO}	Collector-Emitter Breakdown Voltage	I _C = 1mA ; I _B = 0	600			V
V _{CBO (SUS)}	Collector-Emitter Breakdown Voltage	I _C = 100mA ; I _B = 0	450			V
V _{EBO}	Emitter-Base Breakdown Voltage	I _{EBO} =200mA	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.1A			1.2	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 5A ; I _B = 0.1A			1.8	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 600V ; I _E =0			1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C =0			200	mA
h _{FE-1}	DC Current Gain	I _C = 5A ; V _{CE} = 5V	200			

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