

isc Silicon PNP Power Transistor
2SA1185
DESCRIPTION

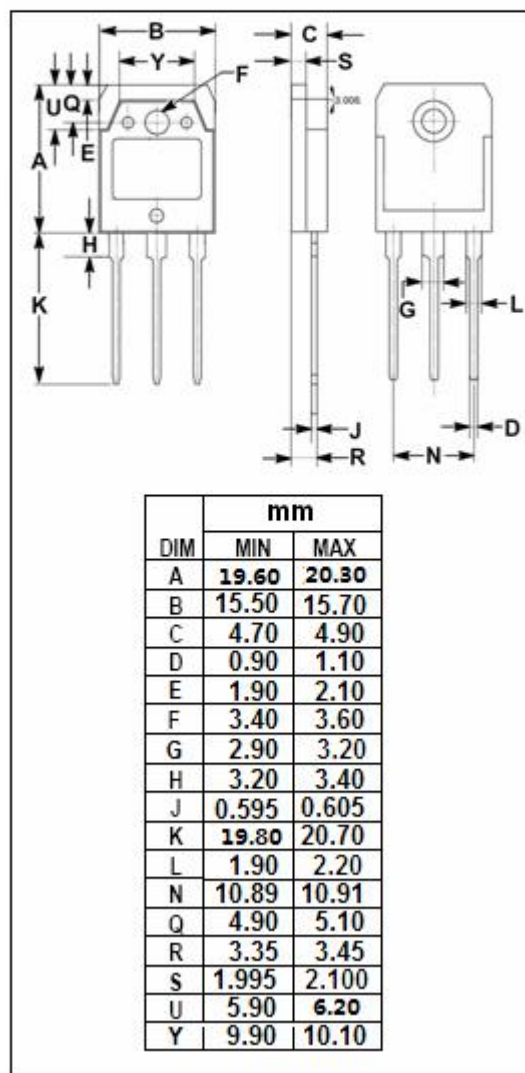
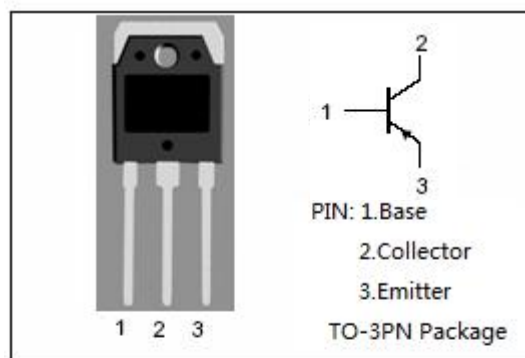
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -50V(\text{Min.})$
- Low Collector-Emitter Saturation Voltage-
: $V_{CE(sat)} = -0.8V(\text{Max.}) @ I_C = -7A$
- Good Linearity of h_{FE}
- Large Collector Current
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for high power audio frequency amplifier applications

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-50	V
V_{CEO}	Collector-Emitter Voltage	-50	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-7	A
I_{CM}	Collector Current-Peak	-15	A
I_{BM}	Base Current-Peak	-5	A
P_C	Collector Power Dissipation @ $T_c = 25^\circ\text{C}$	60	W
	Collector Power Dissipation @ $T_a = 25^\circ\text{C}$	2.5	
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



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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 = -10mA ; I _B = 0	-50			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _c = -7A; I _B = -0.7A			-0.8	V
V _{BE(on)}	Base-Emitter On Voltage	I _c = -7A; V _{CE} = -5V			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -50V; I _E = 0			-1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-2	mA
h _{FE-1}	DC Current Gain	I _c = -1A; V _{CE} = -5V	60		320	
h _{FE-2}	DC Current Gain	I _c = -7A; V _{CE} = -5V	20			
C _{OB}	Collector Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1MHz		250		pF
f _T	Current-Gain—Bandwidth Product	I _c = -0.5A; V _{CE} = -5V		100		MHz

◆ h_{FE-1} Classifications

Q	P	O
60-120	100-200	160-320

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