

isc Silicon PNP Power Transistor
2SB1315
DESCRIPTION

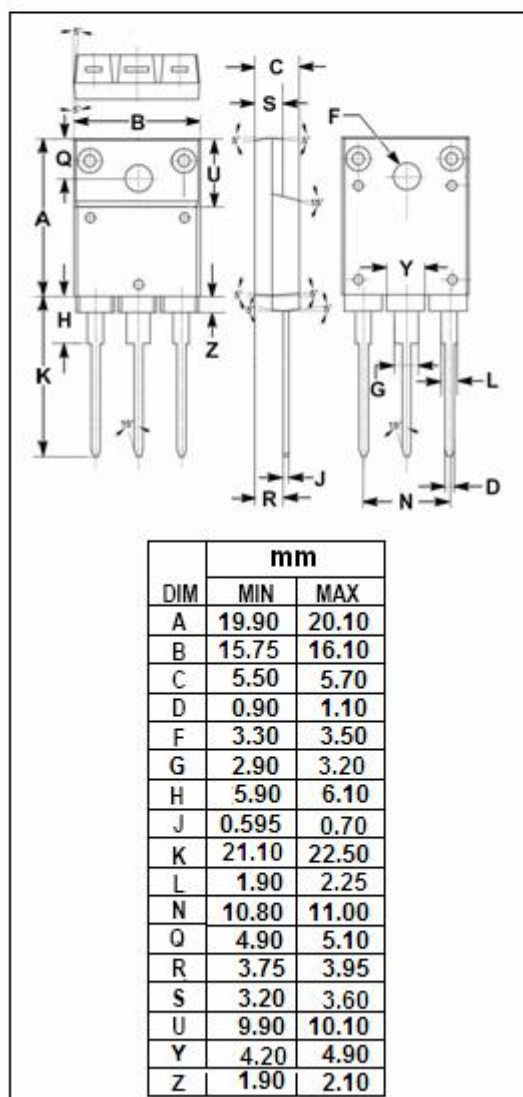
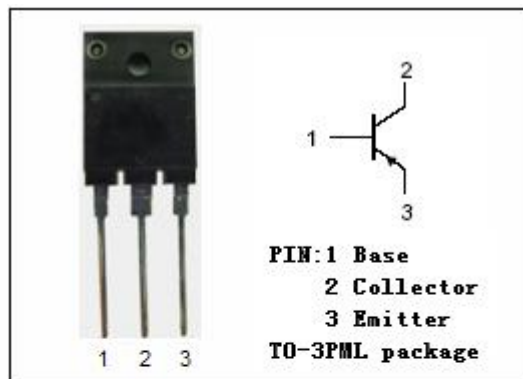
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -120V(\text{Min})$
- Good Linearity of h_{FE}
- Complement to Type 2SD1977
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Audio frequency power amplifier applications
- Recommend for 45-55W audio frequency amplifier output stage applications

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-120	V
V_{CEO}	Collector-Emitter Voltage	-120	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-8	A
I_{CM}	Collector Current-Peak	-12	A
P_C	Collector Power Dissipation @ $T_a=25^\circ\text{C}$	3.5	W
	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	65	
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 _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -5.0A; I _B = -0.5A			-1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -5.0A; I _B = -0.5A			-2.0	V
I _{CB0}	Collector Cutoff Current	V _{CB} = -120V ; I _E =0			-50	μ A
I _{EB0}	Emitter Cutoff Current	V _{EB} = -5V; I _C =0			-50	μ A
h _{FE-1}	DC Current Gain	I _C = -50mA; V _{CE} = -5V	45			
h _{FE-2}	DC Current Gain	I _C = -1A; V _{CE} = -5V	60		320	
C _{OB}	Output Capacitance	I _E =0; V _{CB} = -10V; f _{test} = 1.0MHz		200		pF

◆ h_{FE-2} Classifications

M	L	K
60-120	100-200	160-320

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