

isc Silicon PNP Power Transistor

2SB1315

DESCRIPTION

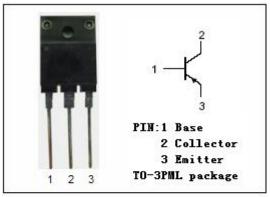
- · Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= -120V(Min)
- · Good Linearity of hFE
- Complement to Type 2SD1977
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

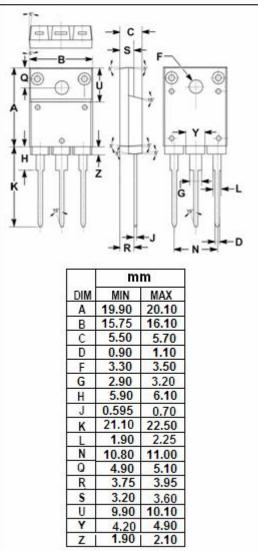
APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

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	
Ic	Collector Current-Continuous	-8	А	
I _{CM}	Collector Current-Peak	-12	А	
P _C	Collector Power Dissipation @ T _a =25 °C	3.5	W	
	Collector Power Dissipation @ T _C =25℃	65		
TJ	Junction Temperature 150		°C	
T _{stg}	Storage Temperature Range -55~15		$^{\circ}$	







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ELECTRICAL CHARACTERISTICS

T_C=25℃ 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
$V_{\text{BE}(\text{sat})}$	Base-Emitter Saturation Voltage	I _C = -5.0A; I _B = -0.5A			-2.0	V
Ісво	Collector Cutoff Current	V _{CB} = -120V ; I _E =0			-50	μА
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = -5V; I _C =0			-50	μА
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	
Сов	Output Capacitance	I _E =0; V _{CB} = -10V; f _{test} = 1.0MHz		200		pF

h_{FE-2} Classifications

М	L	К	
60-120	100-200	160-320	

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