

isc Silicon PNP Power Transistor**2SB1133****DESCRIPTION**

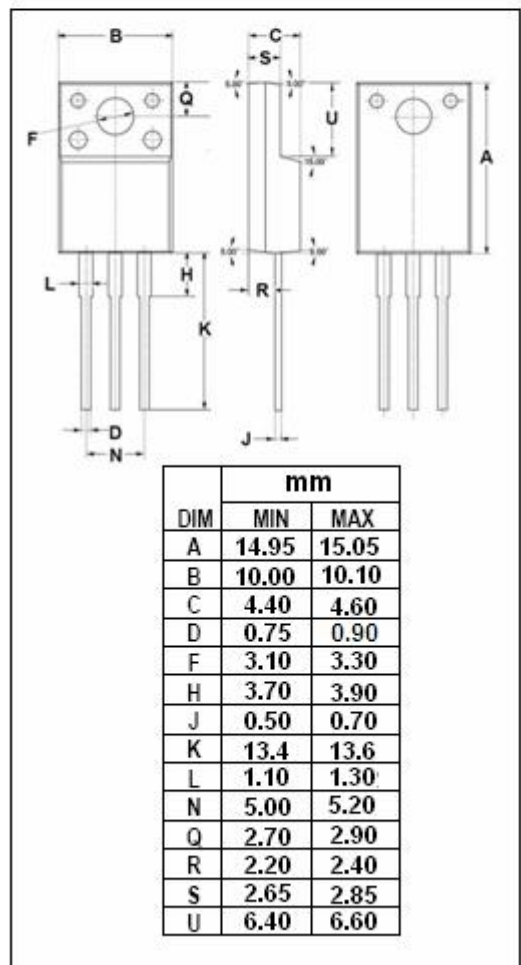
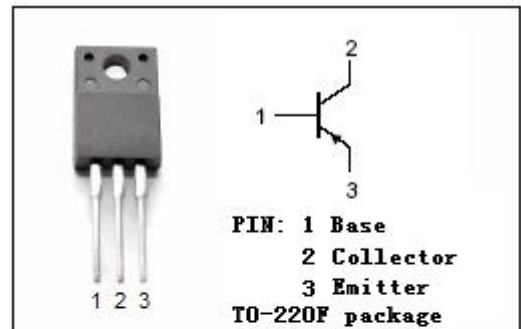
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -60V(\text{Min})$
- Good Linearity of h_{FE}
- Wide Area of Safe Operation
- Complement to Type 2SD1666
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for low frequency and general purpose amplifier applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-60	V
V_{CEO}	Collector-Emitter Voltage	-60	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-3	A
I_{CM}	Collector Current-Peak	-8	A
P_C	Collector Power Dissipation @ $T_a=25^\circ\text{C}$	2	W
	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	25	
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-40~150	$^\circ\text{C}$



isc Silicon PNP Power Transistor**2SB1133****ELECTRICAL CHARACTERISTICS****T_j=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -5mA ; R _{BE} = ∞	-60			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -1mA ; I _E = 0	-60			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA ; I _C = 0	-6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -2A; I _B = -0.2A			-1.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -0.5A ; V _{CE} = -5V			-1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -40V ; I _E =0			-100	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C =0			-100	μ A
h _{FE-1}	DC Current Gain	I _C = -0.5A ; V _{CE} = -5V	70		280	
h _{FE-2}	DC Current Gain	I _C = -3A ; V _{CE} = -5V	20			

◆ h_{FE-1} Classifications

Q	R	S
70-140	100-200	140-280

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