

isc Silicon NPN Power Transistor
2SC2336
DESCRIPTION

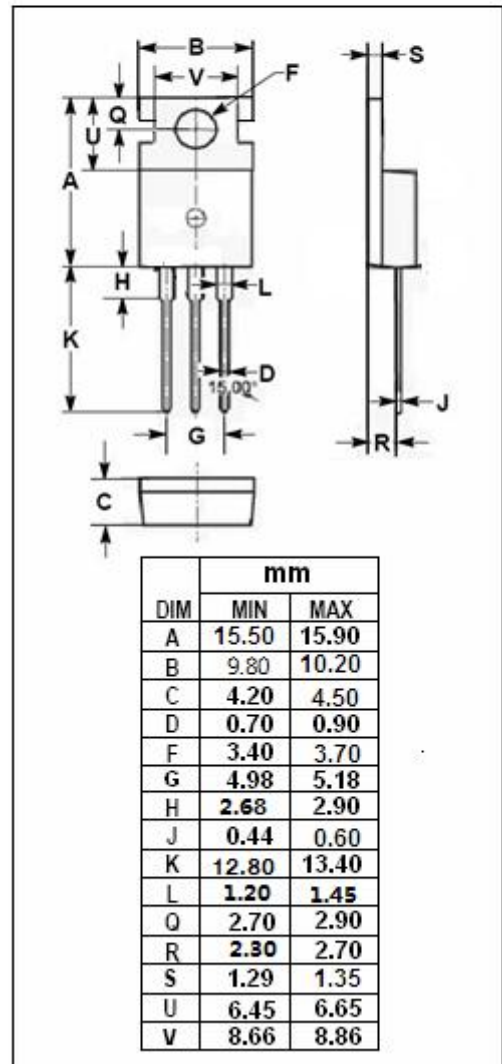
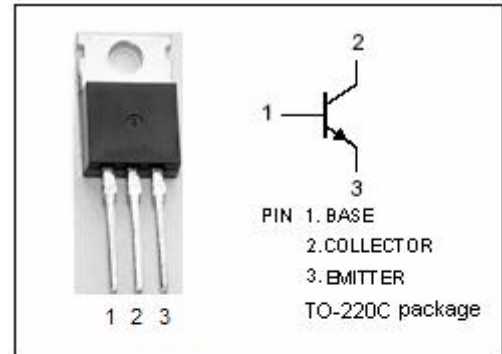
- Good Linearity of h_{FE}
- High Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 180V(\text{Min})$
- Wide Area of Safe Operation
- Complement to Type 2SA1006
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- A audio frequency power amplifier
- High frequency power amplifier

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	180	V
V_{CEO}	Collector-Emitter Voltage	180	V
V_{EBO}	Emitter-Base Voltage	5.0	V
I_C	Collector Current-Continuous	1.5	A
I_{CM}	Collector Current-Peak	3.0	A
P_C	Collector Power Dissipation@ $T_a = 25^\circ\text{C}$	1.5	W
	Collector Power Dissipation@ $T_c = 25^\circ\text{C}$	25	
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



isc Silicon NPN Power Transistor**2SC2336****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 = 500mA; I _B = 50mA			1.0	V
V _{BE(sat)} ★	Base-Emitter Saturation Voltage	I _C = 500mA; I _B = 50mA			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 150V; I _E = 0			1.0	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 3.0V; I _C =0			1.0	μ A
h _{FE-1} ★	DC Current Gain	I _C = 5mA ; V _{CE} = 5V	30			
h _{FE-2} ★	DC Current Gain	I _C = 150mA ; V _{CE} = 5V	60		320	
f _T	Current-Gain—Bandwidth Product	I _C = 100mA ; V _{CE} = 10V		95		MHz
C _{OB}	Output Capacitance	I _E = 0 ; V _{CB} = 10V; f _{test} = 1.0MHz		30		pF

★Pulse Test/PW ≅ 350us, duty ≅ 2%

◆ **h_{FE-2} Classifications**

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

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