

isc Silicon PNP Power Transistor
2SB435
DESCRIPTION

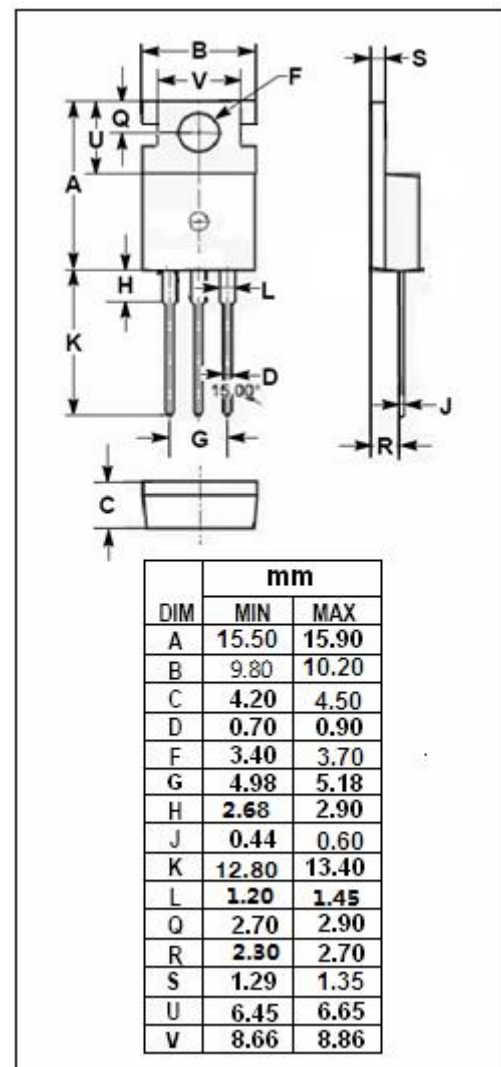
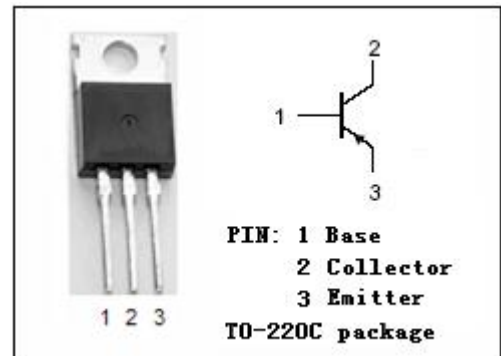
- Collector-Emitter Sustaining Voltage-
: $V_{CE(SUS)} = -50V(\text{Min})$
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = -1.0V(\text{Max.}) @ I_c = -1A$
- Complement to Type 2SD235
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for low frequency power amplifier applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-40	V
V_{CEO}	Collector-Emitter Voltage	-40	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_c	Collector Current-Continuous	-3	A
I_B	Base Current-Continuous	-0.3	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	-55~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -10mA; I _B = 0	-40			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA; I _C = 0	-5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -1A; I _B = -0.05A			-1.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -0.5A; V _{CE} = -5V			-0.9	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -30V; I _E = 0			-10	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-10	μ A
h _{FE1}	DC Current Gain	I _C = -0.5A; V _{CE} = -5V	40		240	
h _{FE2}	DC Current Gain	I _C = -2.5A; V _{CE} = -5V	15			
C _{OB}	Output Capacitance	I _E =0; V _{CB} = -10V; f= 1.0MHz		150		pF
f _T	Current-Gain—Bandwidth Product	I _C =-0.5A ; V _{CE} = -5V		10		MHz

h_{FE}-1 Classifications

R	O	Y
40-80	70-140	120-240

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