

isc Silicon PNP Power Transistor
2SB549
DESCRIPTION

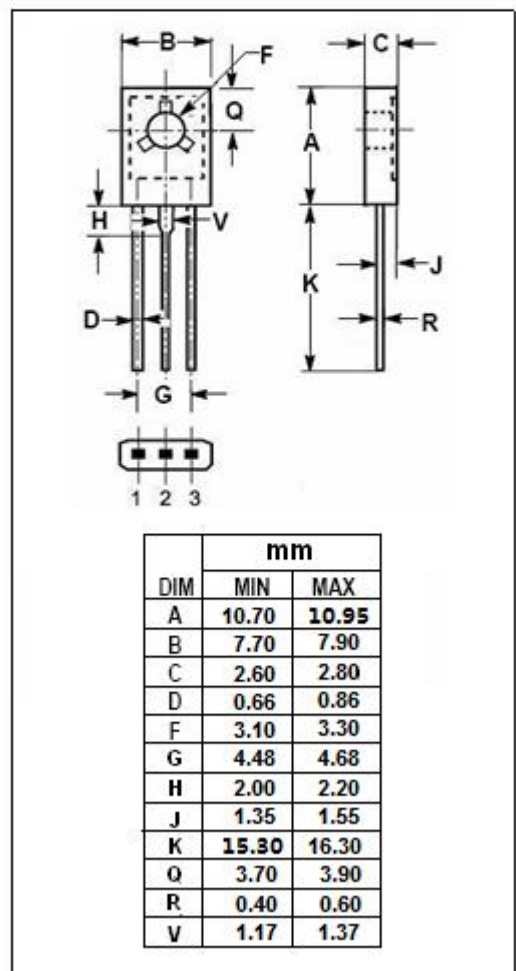
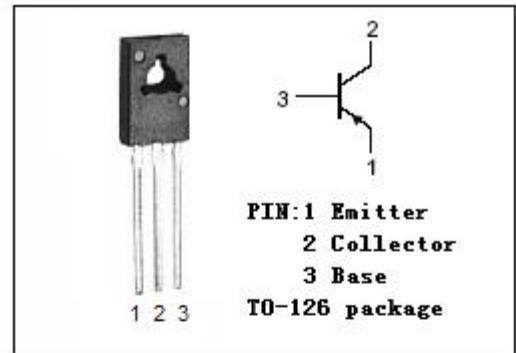
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -100V(\text{Min})$
- With TO-126 package
- Complement to Type 2SD415
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for low frequency power amplifiers 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	-100	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-0.8	A
I_{CM}	Collector Current-Peak	-1.5	A
P_C	Collector Power Dissipation @ $T_a=25^\circ\text{C}$	1	W
	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	10	
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$



PowISC Silicon PNP er Transistor
2SB549
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 = -1mA; R _{BE} =∞	-100			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -0.5A; I _B = -50mA			-2.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -0.5A; I _B = -50mA			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -80V; I _E = 0			-1	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -3V; I _C = 0			-1	μ A
h _{FE-1}	DC Current Gain	I _C = -2mA; V _{CE} = -5V	20			
h _{FE-2}	DC Current Gain	I _C = -0.2A; V _{CE} = -5V	40		320	
C _{OB}	Output Capacitance	I _E =0; V _{CB} = -10V; f= 1MHz		25		pF
f _T	Current-Gain—Bandwidth Product	I _C =-0.1A ; V _{CE} = -5V		70		MHz

◆ h_{FE-2}Classifications

S	R	Q	P
40-80	60-120	100-200	160-320

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