

isc Silicon PNP Power Transistor

2SB548

DESCRIPTION

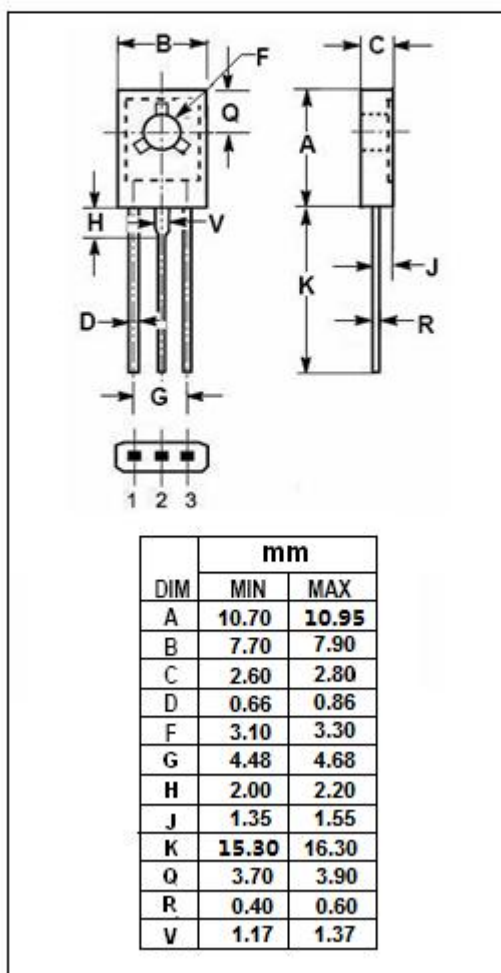
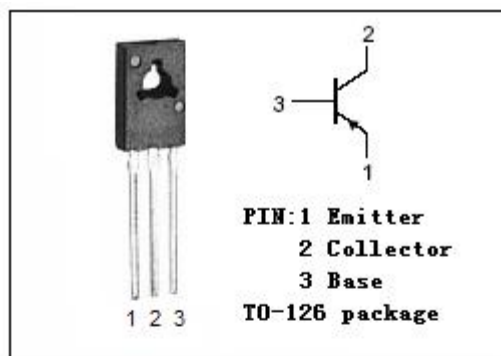
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -80V(\text{Min})$
- With TO-126 package
- Complement to Type 2SD414
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

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	-100	V
V_{CEO}	Collector-Emitter Voltage	-80	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	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

Tj=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C = -1mA; R_{BE} = \infty$	-80			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	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -3V; I_C = 0$			-1	μA
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
40-80	60-120	100-200

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