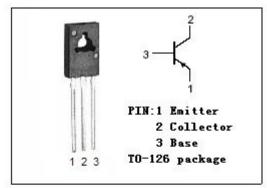


isc Silicon PNP Power Transistor

2SB1009

DESCRIPTION

- High Collector Current -I_C= -2A
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -32V(Min)
- Good Linearity of hFE
- Low Saturation Voltage
- Complement to Type 2SD1380
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

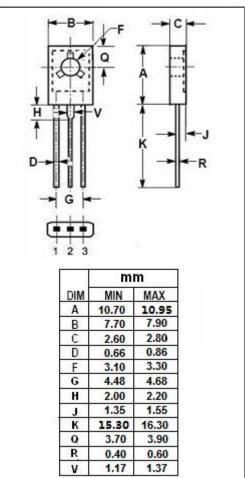


APPLICATIONS

• Designed for low frequency power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-40	V	
V _{CEO}	Collector-Emitter Voltage	-32	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
lc	Collector Current-Continuous	-2	Α	
I _{CP}	Collector Current-Pulse	-3	Α	
P _C	Collector Power Dissipation @ T _c =25°C	10	W	
	Collector Power Dissipation @ T _a =25 °C	1.2		
TJ	T _J Junction Temperature		$^{\circ}$ C	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C	





isc Silicon PNP Power Transistor

2SB1009

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -1mA; I _B =0	-32			V	
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -50 μ A; I _E = 0	-40			V	
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -50 μ A; I _C = 0	-5			V	
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -2A; I _B = -0.2A			-0.8	V	
I _{CBO}	Collector Cutoff Current	V _{CB} = -20V; I _E = 0			-1.0	μА	
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0			-1.0	μА	
h _{FE}	DC Current Gain	Ic= -0.5A; V _{CE} = -5V	82		390		

h_{FE} Classifications

Р	Q	R
82-180	120-270	180-390

NOTICE:

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