



isc Silicon NPN Power Transistor

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 2SB1009
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

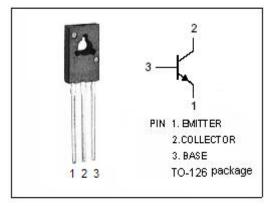


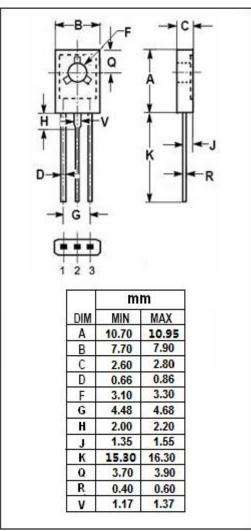
APPLICATIONS

• Designed for low frequency power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	40	V
Vceo	Collector-Emitter Voltage	32	٧
V _{EBO}	Emitter-Base Voltage	5	٧
Ic	Collector Current-Continuous	2	Α
Pc	Collector Power Dissipation @ T _C =25℃	10	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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2SD1380

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT		
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 50 μ A; I _E = 0	40			V		
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA; I _B = 0	32			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		
Ісво	Collector Cutoff Current	V _{CB} = 20V; I _E = 0			1	μА		
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0			1	μА		
h _{FE}	DC Current Gain	I _C = 0.5A; V _{CE} = 3V	82		390			
f⊤	Current-Gain—Bandwidth Product	I _E = -0.5A; V _{CE} = 5V		100		MHz		
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V, f _{test} = 1MHz		30		pF		

♦ h_{FE} Classifications

Р	Q	R
82-180	120-270	180-390

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