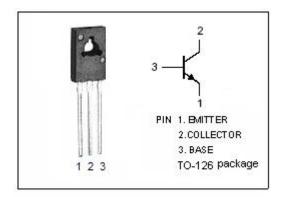




isc Silicon NPN Power Transistor

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 35V(Min)
- Good Linearity of hFE
- High Collector Power Dissipation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

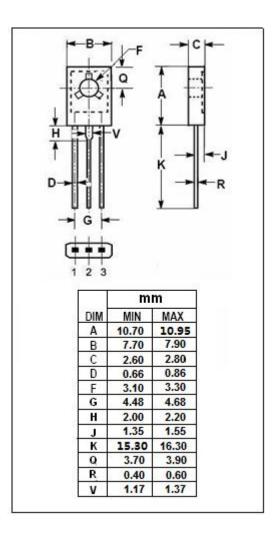


APPLICATIONS

· Designed for AF power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	45	V	
V _{CEO}	Collector-Emitter Voltage	35	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	1	А	
I _{CM}	Collector Current-Peak	1.5	А	
P _C	Collector Power Dissipation @ Tc=25℃	10	W	
	Collector Power Dissipation @ T _a =25℃	1.2		
TJ	Junction Temperature	150	$^{\circ}$ C	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	





isc Silicon NPN Power Transistor

2SC2582

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	45			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 2mA; I _B = 0	35			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 0.5A; I _B = 50mA			0.5	V
Ісво	Collector Cutoff Current	V _{CB} = 20V; I _E = 0			0.1	μА
I _{CEO}	Collector Cutoff Current	V _{CE} = 20V; I _B = 0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			10	μА
h _{FE-1}	DC Current Gain	I _C = 0.5A; V _{CE} = 10V	85		340	
h _{FE-2}	DC Current Gain	I _C = 1A; V _{CE} = 5V	50			
fτ	Current-Gain—Bandwidth Product	I _E = -50mA; V _{CB} = 10V; f= 200MHz		200		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V, f _{test} = 1MHz			20	pF

♦ h_{FE} Classifications

Q	R	S
85-170	120-240	170-340

Notice:

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