

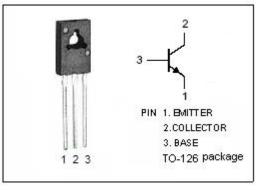
INCHANGE SEMICONDUCTOR

isc Silicon NPN Power Transistor

2SC2582

DESCRIPTION

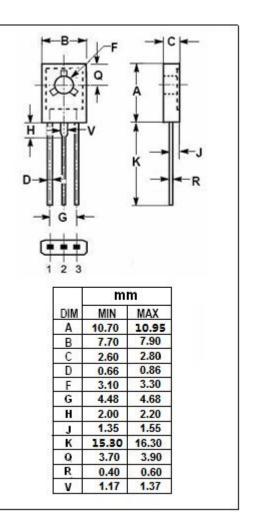
- Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 35V(Min)
- Good Linearity of h_{FE}
- High Collector Power Dissipation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

• Designed for AF power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)						
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			
I _C	Collector Current-Continuous	1	A			
I _{CM}	Collector Current-Peak	1.5	1.5 A			
Pc	Collector Power Dissipation @ Tc=25℃	10	10/			
	Collector Power Dissipation @ $T_a=25^{\circ}C$	1.2	W			
TJ	Junction Temperature	150	°C			
T _{stg}	Storage Temperature Range	-55~150	°C			



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ELECTRICAL CHARACTERISTICS

T_c =25 $^{\circ}$ C unless otherwise specified							
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT	
V _{(BR)CBO}	Collector-Base Breakdown Voltage	Ic= 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	μA	
I _{CEO}	Collector Cutoff Current	V _{CE} = 20V; I _B = 0			100	μA	
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			10	μA	
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				
f⊤	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

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