

ISC Silicon NPN Power Transistor

DESCRIPTION

- High Collector-Emitter Breakdown Voltage-V_{(BR)CEO}= 120V(Min)
- · Good Linearity of hFE
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

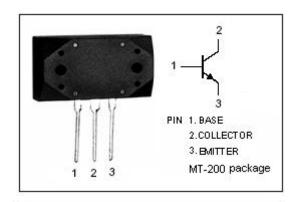


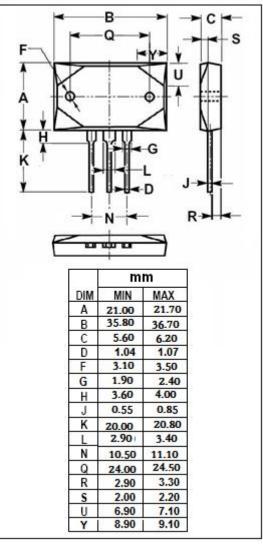
APPLICATIONS

• Designed for audio and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{СВО}	Collector-Base Voltage	120	V	
V _{CEO}	Collector-Emitter Voltage	120	V	
V _{EBO}	Emitter-Base Voltage 7		V	
lc	Collector Current-Continuous	12	Α	
lε	Emitter Current-Continuous	-12	Α	
Pc	Collector Power Dissipation @ T _C =25℃	120	W	
TJ	Junction Temperature	150	°C	
Tstg	Storage Temperature Range	-55~150	°C	







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2SC2525

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 100mA ; I _B = 0	120			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 10mA ; I _C = 0	7			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5 A			1.8	V
V _{BE}	Base-Emitter Voltage	I _C = 5A; V _{CE} = 5V			1.7	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 120V; I _E = 0			10	μА
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = 7V; I _C =0			10	μА
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	60		200	
h _{FE-2}	DC Current Gain	I _C = 7A; V _{CE} = 5V	40			
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V;f _{test} = 1.0MHz			300	pF
f⊤	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 10V		80		MHz

NOTICE:

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