

isc Silicon PNP Power Transistor

2SA2121

DESCRIPTION

- High Current Capability
- · High Power Dissipation
- · High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -200V(Min)
- · Complement to Type 2SC5949
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



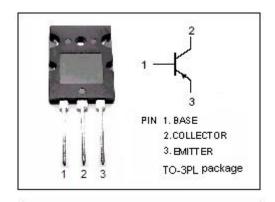
APPLICATIONS

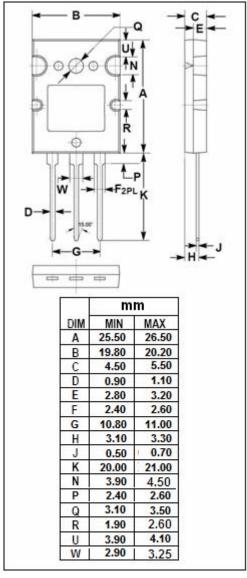
- · Power amplifier applications
- · Recommended for audio frequency amplifier output stage.



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-200	V	
Vceo	Collector-Emitter Voltage	-200	V	
V _{EBO}	Emitter-Base Voltage	V		
Ic	Collector Current-Continuous -15			
lΒ	Base Current-Continuous -1.5			
Pc	Collector Power Dissipation @ Tc=25℃ 220			
Тл	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range -55~150			







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ELECTRICAL CHARACTERISTICS

Tc=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -50mA ; I _B = 0	-200			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -10A; I _B = -1A			-3.0	V
$V_{\text{BE}(on)}$	Base-Emitter On Voltage	I _C = -8A ; V _{CE} = -5V			-1.5	V
Ісво	Collector Cutoff Current	V _{CB} = -200V ; I _E = 0			-5	μА
I _{ЕВО}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-5	μА
h _{FE-1}	DC Current Gain	I _C = -1A ; V _{CE} = -5V	55		160	
h _{FE-2}	DC Current Gain	I _C = -8A ; V _{CE} = -5V	35			
Сов	Output Capacitance	I _E =0 ; V _{CB} = -10V;f= 1.0MHz		470		pF
f⊤	Current-Gain—Bandwidth Product	I _C =-1A ; V _{CE} = -5V		25		MHz

h_{FE-1} Classifications

R	0		
55-110	80-160		

NOTICE:

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