

isc Silicon NPN Power Transistor

2SC5949

DESCRIPTION

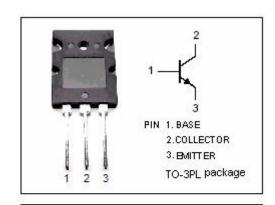
- · High Current Capability
- · High Power Dissipation
- · High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 200V(Min)
- Complement to Type 2SA2121
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

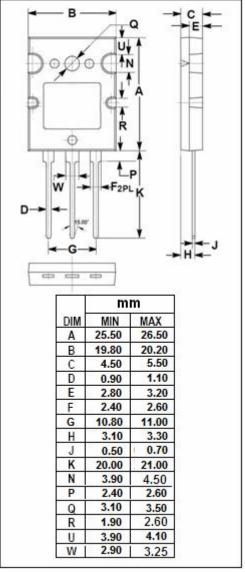


- · Power amplifier applications
- Recommended for audio frequency amplifier output stage.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	200	V
V _{CEO}	Collector-Emitter Voltage	200	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	15	Α
lΒ	Base Current-Continuous	1.5	Α
Pc	Collector Power Dissipation @ T _C =25℃	220	W
TJ	Junction Temperature 150		$^{\circ}$ C
T _{stg}	Storage Temperature Range -55-		$^{\circ}$ C







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ELECTRICAL CHARACTERISTICS

T_C=25℃ 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 _{BE(on)}	Base-Emitter On Voltage	I _C = 8A ; V _{CE} = 5V			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 200V ; I _E = 0			5	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			5	μ A
h _{FE-1}	DC Current Gain	Ic= 1A; Vc== 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
fτ	Current-Gain—Bandwidth Product	I _C =1A ; V _{CE} = 5V		25		MHz

♦ h_{FE-1} Classifications

R	0
55-110	80-160

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