

isc Silicon PNP Power Transistor

2SA1941

DESCRIPTION

- · Low Collector Saturation Voltage-
 - : V_{CE(sat)}=- 2.0V(Min) @I_C=- 7A
- Good Linearity of hFE
- · Complement to Type 2SC5198
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

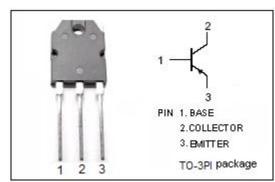
APPLICATIONS

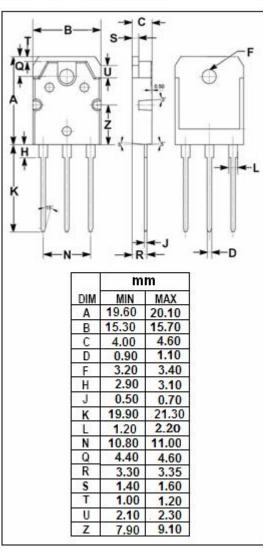


- · Power amplifier applications
- Recommend for 70W high fidelity audio frequency amplifier output stage applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-140	٧
V _{CEO}	Collector-Emitter Voltage	-140	٧
V _{EBO}	Emitter-Base Voltage	-5	٧
lc	Collector Current-Continuous	-10	Α
I _B	Base Current-Continuous	-1	Α
P _C	Collector Power Dissipation @ T _C =25℃	100	W
TJ	Junction Temperature 150		$^{\circ}$
T _{stg}	Storage Temperature Range -55~150		$^{\circ}$ C







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -50mA ; I _B = 0	-140			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -7.0A; I _B = -0.7A			-2.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -5A ; V _{CE} = -5V			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -140V ; I _E =0			-5	μА
I _{EBO}	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 = -5A ; V _{CE} = -5V	35			
Сов	Output Capacitance	I _E =0 ; V _{CB} = -10V;f _{test} = 1.0MHz		320		pF
f⊤	Current-Gain—Bandwidth Product	I _C =-1A ; V _{CE} = -5V		30		MHz

h_{FE-1} Classifications

R	0		
55-110	80-160		

NOTICE:

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