

isc Silicon NPN Power Transistor

2SC3907S

DESCRIPTION

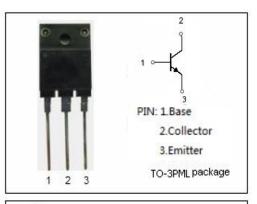
- Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 180V(Min)
- Good Linearity of h_{FE}
- Complement to Type 2SA1516S
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

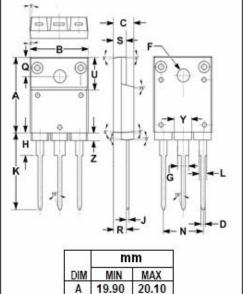
APPLICATIONS

- Power amplifier applications
- Recommend for 80W high fidelity audio frequency
 amplifier output stage applications

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	180	V	
VCEO	Collector-Emitter Voltage 180			
V _{EBO}	Emitter-Base Voltage	5	V	
Ιc	Collector Current-Continuous	12	A	
lΒ	Base Current-Continuous	1.2	A	
Pc	Collector Power Dissipation $T_c=25^{\circ}C$ 130		W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)





~	10.00	20110
В	15.75	16.10
С	5.50	5.70
D	0.90	1.10
F	3.30	3.50
G	2.90	3.20
Н	5.90	6.10
J	0.595	0.70
Κ	21.10	22.50
L	1.90	2.25
Ν	10.80	11.00
0	4.90	5.10
R	3.75	3.95
S	3.20	3.60
U	9.90	10.10
Y	4.20	4.90
Ζ	1.90	2.10

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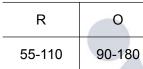
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ELECTRICAL CHARACTERISTICS

$T_{c}\text{=}25^{\circ}\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 50mA; I _B = 0	180			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 0.8A			2.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 7A ; V _{CE} = 5V			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 180V; I _E = 0			5	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			5	μA
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	55		180	
h _{FE-2}	DC Current Gain	I _C = 7A; V _{CE} = 5V	35			

h_{FE-1} Classifications



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