

ISC Silicon NPN Power Transistor

2SC3854

DESCRIPTION

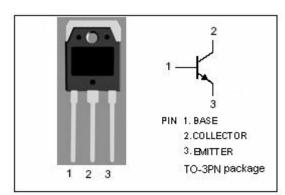
- · Collector-Emitter Breakdown Voltage-V_{(BR)CEO}= 120V(Min)
- · Good Linearity of hFE
- Complement to Type 2SA1490
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

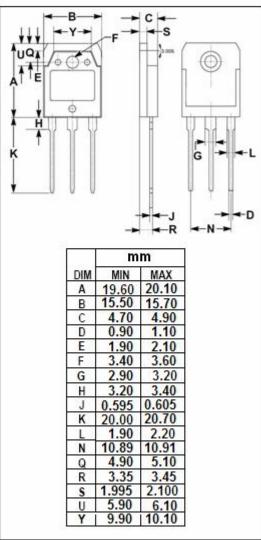
APPLICATIONS

· For audio and general purpose applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	120	V	
V _{CEO}	Collector-Emitter Voltage	120	V	
V _{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current-Continuous	8	А	
I _B	Base Current-Continuous	3	A	
P _C	Collector Power Dissipation @ T _C =25℃	80	W	
TJ	Junction Temperature	150	$^{\circ}$ C	
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	120			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	Ic= 3A; I _B = 0.3A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 120V; I _E = 0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			100	μА
h _{FE}	DC Current Gain	I _C = 3A; V _{CE} = 4V	50			
f⊤	Current-Gain—Bandwidth Product	I _E = -0.5A; V _{CE} = 12V		20		MHz



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