

isc Silicon NPN Power Transistor

2SC1507

DESCRIPTION

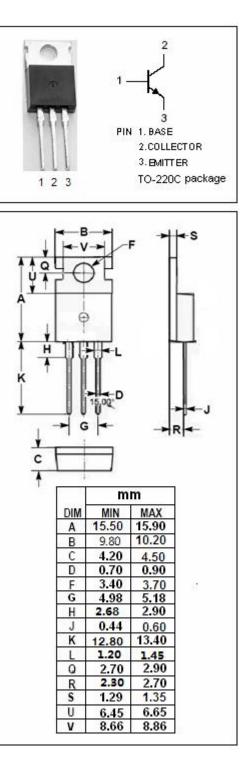
- Collector-Emitter Breakdown Voltage-: V_{(BR)CEO}= 300V(Min)
- Low Collector-Emitter Saturation Voltage-
- : V_{CE(sat)}= 2.0V(Max) @I_C= 50mA
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Designed for use in line-operated color TV chroma output Circuits and sound output circuits

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	300	V
V _{CEO}	Collector-Emitter Voltage	300	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current-Continuous	200	mA
Pc	Collector Power Dissipation @ Tc=25°C	15	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



1



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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 50mA; I _B =5mA			2.0	V
Ісво	Collector Cutoff Current	V _{CB} = 200V ; I _E = 0			100	nA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V ; I _C = 0			100	nA
h _{FE}	DC Current Gain	I _C = 10mA ; V _{CE} = 10V	40		240	
fT	Current-Gain—Bandwidth Product	I _C = 10mA; V _{CE} = 30V;f _{test} = 1.0MHz		80		MHz

h_{FE} Classifications

R	о	Y
40-80	70-140	120-240

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