2SC5147



ISC Silicon NPN Power Transistor

DESCRIPTION

- High breakdown voltage(BVceo=300V).
- Low collector output capacitance(Typ.3pF@Vce=30V).
- Wide SOA(safe operating area)
- · Ideal for color TV chroma output and amplification of video signals
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

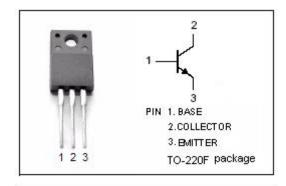


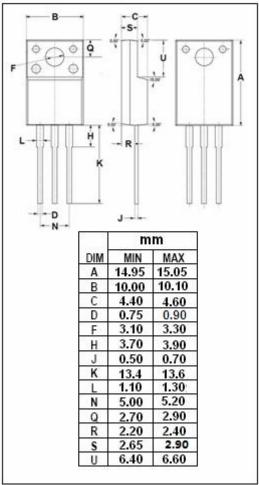
APPLICATIONS

• Designed for medium power transistor(Chroma Output)

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	5	V
Ic	Collector Current-Continuous 0.		А
Pc	Collector Power Dissipation	2	W
	Collector Power Dissipation @ T_c =25 $^{\circ}$ C	10	VV
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 50mA; I _B = 5mA			1	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 200V; I _E = 0			0.5	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0			0.5	μА
h _{FE}	DC Current Gain	I _C = 10mA; V _{CE} = 10V	60		200	
f⊤	Current-Gain—Bandwidth Product	I _E = -20mA; V _{CE} = 30V	50	100		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 30V; f _{test} = 1.0MHz		3		pF



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