

isc Silicon NPN Power Transistor

2SC4544

DESCRIPTION

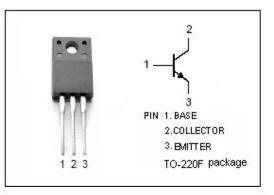
- Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 300V(Min)
- Small Collector Ouptut Capacitance
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

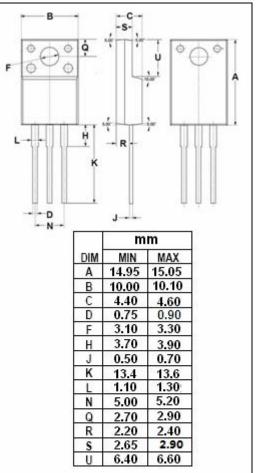
APPLICATIONS

- · High voltage switching and amplifier applications.
- Color TV horizontal driver applications.
- · Color TV chroma output applications.

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage 300		V	
V _{CEO}	Collector-Emitter Voltage 300		V	
Vebo	Emitter-Base Voltage	7	V	
lc	Collector Current-Continuous	0.1	A	
I _B	Base Current-Continuous	50	mA	
Pc	Collector Power Dissipation @T _c =25℃	8	W	
	Collector Power Dissipation @Ta=25℃	2	VV	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-55~150	°C	

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)





isc website: <u>www.iscsemi.com</u>

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1



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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA ; I _B = 0	300			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 10mA; I _B = 1mA			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 10mA; I _B = 1mA			1.0	V
Ісво	Collector Cutoff Current	V _{CB} = 240V ; I _E = 0			1.0	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			1.0	μA
h _{FE-1}	DC Current Gain	I _C = 4mA ; V _{CE} = 10V	20			
h _{FE-2}	DC Current Gain	I _C = 20mA ; V _{CE} = 10V	30		200	
Сов	Output Capacitance	I _E = 0; V _{CB} = 20V; f= 1MHz		3.0		pF
fT	Current-Gain—Bandwidth Product	I _C = 20mA ; V _{CE} = 10V	50	70		MHz

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2