

isc Silicon NPN Power Transistor

2SC3944

DESCRIPTION

- High Collector-Emitter Breakdown Voltage-: V_{(BR)CEO}= 150V(Min)
- · Good Linearity of hFE
- Complement to Type 2SA1535
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

Vсво

VCEO

 V_{EBO}

lc

Ісм

Pc

 T_{J}

Tstg

• For low frequency driver and high power amplification.

UNIT

V

V

V

А

А

W

°C

°C

150

150

5

1

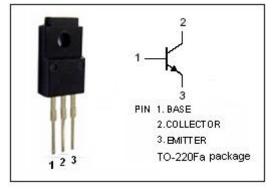
1.5

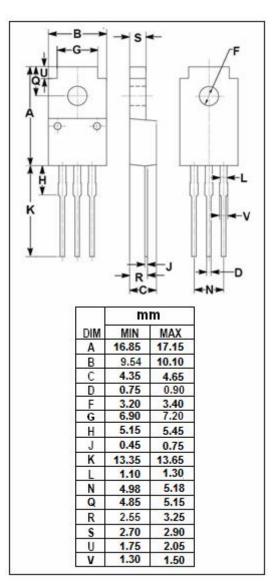
15

2

150

-55~150





ABSOLUTE MAXIMUM RATINGS(Ta=25°C)					
SYMBOL	PARAMETER	VALUE			

Collector-Base Voltage

Collector-Emitter Voltage

Collector Current-Continuous

Emitter-Base Voltage

Collector Current-Peak

@ Tc=25°C

@ T_a=25°C

Collector Power Dissipation

Collector Power Dissipation

Storage Temperature Range

Junction Temperature

isc website: www.iscsemi.com

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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA; I _B = 0	150			V
V(BR)EBO	Emitter-Base Breakdown Vltage	I _E = 10 μ A ; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 0.5A; I _B = 50mA			2.0	V
V _{B E(sat)}	Base-Emitter Saturation Voltage	I _C = 0.5A; I _B = 50mA			2.0	V
Ісво	Collector Cutoff Current	V _{CB} = 150V; I _E = 0			10	μA
h _{FE-1}	DC Current Gain	I _C = 150mA; V _{CE} = 10V	95		220	
h _{FE-2}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	50			
f⊤	Current-Gain—Bandwidth Product	I _E = -50mA; V _{CE} = 10V	100			MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V, f _{test} = 1MHz		30		pF

h_{FE-1} Classifications

Q	R	_
95-155	130-220	

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