

isc Silicon PNP Darlington Power Transistor

2SB1342

DESCRIPTION

- Collector-Emitter Breakdown Voltage-: V_{(BR)CEO}= -80V(Min)
- High DC Current Gain-
- : h_{FE}= 1000(Min)@ (V_{CE}= -3V, I_C= -2A)
- Complement to Type 2SD1933
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

Vсво

VCEO

Vebo

lc

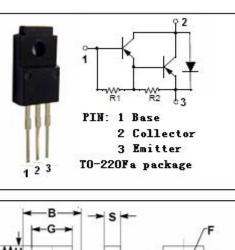
Ісм

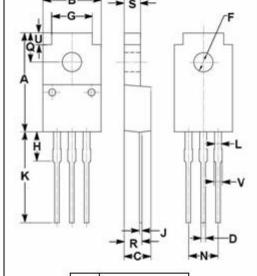
 P_{C}

ΤJ

Tstg

Designed for power amplifier applications.





UNIT

V

V

V

А

А

W

°C

°C

-80

-80

-7

-4

-6

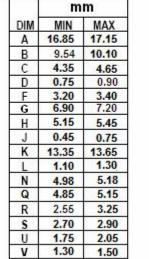
2

30

150

-55~150

1



SYMBOL PARAMETER VALUE

Collector-Base Voltage

Collector-Emitter Voltage

Collector Current-Continuous

Emitter-Base Voltage

Collector Current-Peak

@Ta=25℃

@Tc=25°C

Collector Power Dissipation

Collector Power Dissipation

Junction Temperature

Storage Temperature

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

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



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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -1mA; I _B = 0	-80			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -50 μ A; I _E = 0	-80			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -2A; I _B = -4mA			-1.5	V
І _{сво}	Collector Cutoff Current	V _{CB} = -80V ; I _E = 0			-100	μ Α
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-3	mA
hfe	DC Current Gain	Ic= -2A ; Vce= -3V	1000		10000	
Сов	Output Capacitance	I _E = 0; V _{CB} = -10V; f _{test} = 1MHz		45		pF
f⊤	Current-Gain—Bandwidth Product	I _E = 0.5A ; V _{CE} = -5V; f _{test} = 10MHz		12		MHz

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