2SB1342





isc Silicon PNP Darlington Power Transistor

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

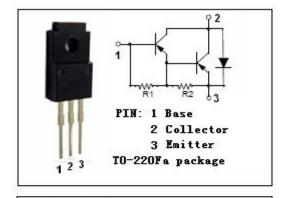


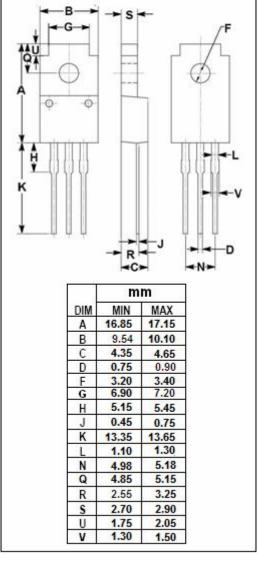
APPLICATIONS

· Designed for power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
Vсво	Collector-Base Voltage	-80	V	
V _{CEO}	Collector-Emitter Voltage	-80	V	
V _{EBO}	Emitter-Base Voltage	-7	V	
lc	Collector Current-Continuous	-4	Α	
Ісм	Collector Current-Peak	-6	Α	
P _C	Collector Power Dissipation @T _a =25℃	2	W	
	Collector Power Dissipation @Tc=25℃	30	VV	
TJ	Junction Temperature	150	${\mathbb C}$	
T _{stg}	Storage Temperature	-55~150	$^{\circ}$	







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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	-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
I _{CBO}	Collector Cutoff Current	V _{CB} = -80V ; I _E = 0			-100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-3	mA
h _{FE}	DC Current Gain	I _C = -2A ; V _{CE} = -3V	1000		10000	
Сов	Output Capacitance	I _E = 0; V _{CB} = -10V; f _{test} = 1MHz		45		pF
f _T	Current-Gain—Bandwidth Product	I _E = 0.5A ; V _{CE} = -5V; f _{test} = 10MHz		12		MHz

NOTICE:

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