

# isc Silicon PNP Darlington Power Transistor

2SB1344

#### **DESCRIPTION**

- · Collector-Emitter Breakdown Voltage-
- : V<sub>(BR)CEO</sub>= -100V(Min)
- · High DC Current Gain-
  - :  $h_{FE}$ = 1000(Min)@ ( $V_{CE}$ = -3V,  $I_{C}$ = -2A)
- Complement to Type 2SD2025
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

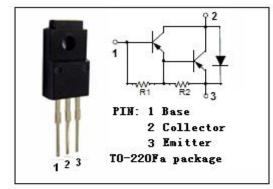


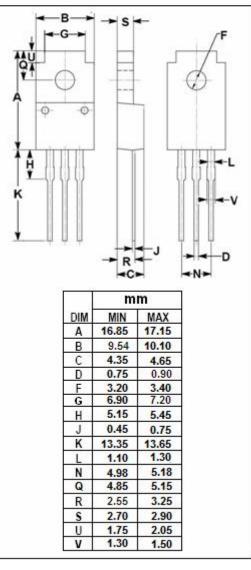
### **APPLICATIONS**

• Designed for power amplifier applications.

## ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>СВО</sub>	Collector-Base Voltage	-100	V
V <sub>CEO</sub>	Collector-Emitter Voltage	-100	٧
V <sub>EBO</sub>	Emitter-Base Voltage	-7	V
Ic	Collector Current-Continuous	-8	Α
Ісм	Collector Current-Peak	-10	Α
Pc	Collector Power Dissipation @T <sub>a</sub> =25℃	2	W
	Collector Power Dissipation @Tc=25℃	30	VV
TJ	Junction Temperature	150	$^{\circ}$ C
T <sub>stg</sub>	Storage Temperature	-55~150	$^{\circ}$







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#### **ELECTRICAL CHARACTERISTICS**

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = -10mA; I <sub>B</sub> = 0	-100			V
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage	I <sub>C</sub> = -50 μ A; I <sub>E</sub> = 0	-100			V
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -3A; I <sub>B</sub> = -6mA			-1.5	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = -100V; I <sub>E</sub> = 0			-10	μА
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -5V; I <sub>C</sub> = 0			-3	mA
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = -2A; V <sub>CE</sub> = -3V	1000		20000	
Сов	Output Capacitance	I <sub>E</sub> = 0; V <sub>CB</sub> = -10V; f <sub>test</sub> = 1MHz		90		pF
f⊤	Current-Gain—Bandwidth Product	I <sub>E</sub> = 0.5A; V <sub>CE</sub> = -5V; f <sub>test</sub> = 10MHz		12		MHz

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