

# isc Silicon NPN Power Transistor

2SC1826

### **DESCRIPTION**

- · High breakdown voltage
- · Large collector dissipation
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

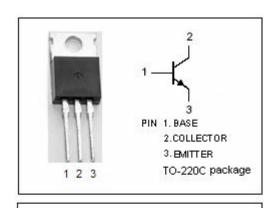


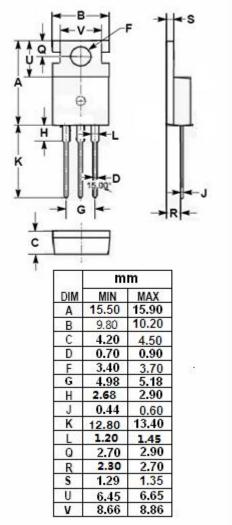
### **APPLICATIONS**

· Low frequency power amplifier applications



SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CBO</sub>	Collector-Base Voltage	80	V
V <sub>CEO</sub>	Collector-Emitter Voltage	60	V
$V_{EBO}$	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	4	А
Pc	Collector Power Dissipation @ T <sub>C</sub> =25℃	30	W
Тл	Junction Temperature	150	$^{\circ}$
T <sub>stg</sub>	Storage Temperature Range	-45~150	$^{\circ}$







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### **ELECTRICAL CHARACTERISTICS**

T<sub>C</sub>=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)</sub> CEO	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = 10mA ; I <sub>B</sub> = 0	60			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 3A; I <sub>B</sub> = 0.3A			1.0	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = 3A; I <sub>B</sub> = 0.3A			1.5	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = 80V ; I <sub>E</sub> = 0			100	μА
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 6V; I <sub>C</sub> = 0			100	μ <b>А</b>
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = 1A; V <sub>CE</sub> = 4V	40		320	



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