



# isc Silicon NPN Power Transistor

#### **DESCRIPTION**

- · Collector-Emitter Breakdown Voltage-
  - :V<sub>(BR)CEO</sub>= 150V(Min)
- Wide Area of Safe Operation
- Complement to Type 2SA940
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

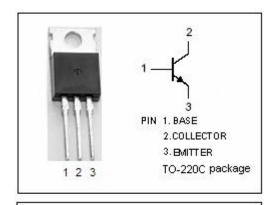


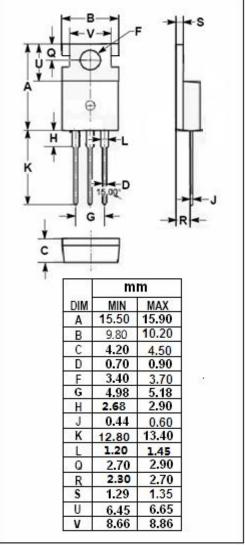
## **APPLICATIONS**

- · Power amplifier applications.
- Vertical output applications.



SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	150	٧
Vceo	Collector-Emitter Voltage	150	V
V <sub>ЕВО</sub>	Emitter-Base Voltage	5	V
lc	Collector Current-Continuous	1.5	Α
lΒ	Base Current-Continuous	0.5	Α
P <sub>C</sub>	Collector Power Dissipation @ T <sub>a</sub> =25°C	1.5	W
	Collector Power Dissipation @ Tc=25°C	25	VV
TJ	Junction Temperature	150	$^{\circ}$
T <sub>stg</sub>	Storage Temperature Range	-55~150	$^{\circ}$







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2SC2073

### **ELECTRICAL CHARACTERISTICS**

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 500mA; I <sub>B</sub> = 50mA			1.5	V
V <sub>BE(on)</sub>	Base-Emitter On Voltage	I <sub>C</sub> = 500mA ; V <sub>CE</sub> = 10V			0.85	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = 120V ; I <sub>E</sub> = 0			10	μА
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 5V; I <sub>C</sub> = 0			10	μА
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = 500mA ; V <sub>CE</sub> = 10V	40		140	
Сов	Output Capacitance	I <sub>E</sub> = 0; V <sub>CB</sub> = 10V; f <sub>test</sub> = 1MHz		35		pF
f⊤	Current-Gain—Bandwidth Product	I <sub>C</sub> = 500mA; V <sub>CE</sub> = 10V		4		MHz

## Notice:

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