

# **isc Silicon NPN Power Transistor**

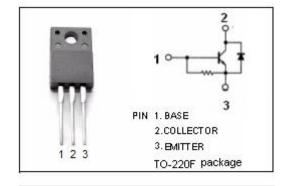
2SC6093

### **DESCRIPTION**

- · Low saturation voltage
- Built-in damper diode type
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

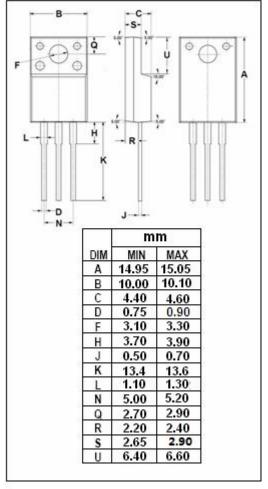
#### **APPLICATIONS**

 Designed for high voltage color display horizontal deflection output applications.



## ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CBO</sub>	Collector-Base Voltage	1500	V
V <sub>CEO</sub>	Collector-Emitter Voltage	800	V
V <sub>EBO</sub>	Emitter-Base Voltage	5	V
Ic	Collector Current- Continuous	5	А
I <sub>B</sub>	Base Current- Continuous	2	А
I <sub>CP</sub>	Collector Current-Pulse	12	А
P <sub>C</sub>	Collector Power Dissipation @ T <sub>a</sub> =25℃	2	\A/
	Collector Power Dissipation @ T <sub>C</sub> =25℃	25	W
TJ	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature Range	-55~150	°C





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#### **ELECTRICAL CHARACTERISTICS**

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>CE</sub> (sat)-1	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 1.35A; I <sub>B</sub> = 0.27A	0.1		0.3	V
VCE(sat)-2	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 2.7A; I <sub>B</sub> = 0.54A			2.0	V
V <sub>BE</sub> (sat)	Base-Emitter Saturation Voltage	I <sub>C</sub> = 2.7A; I <sub>B</sub> = 0.54A			1.5	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = 800V; I <sub>E</sub> = 0			10	μА
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 4V; I <sub>C</sub> = 0	40		130	mA
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> =0.5A; V <sub>CE</sub> = 5V	10			
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = 3A; V <sub>CE</sub> = 5V	5.3		7.5	

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