

# isc Silicon NPN Power Transistor

2SC937

#### **DESCRIPTION**

- · High Breakdown Voltage-
- : V<sub>CBO</sub>= 1200V(Min)
- · High Reliability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

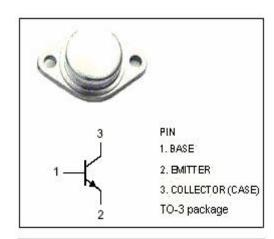
#### **APPLICATIONS**

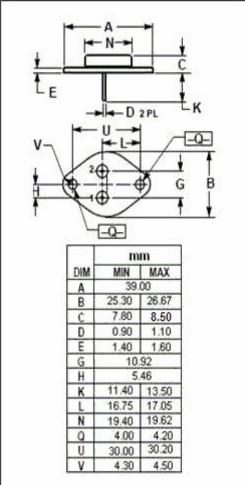
• Designed for TV horizontal deflection output applications.



## ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CBO</sub>	Collector-Base Voltage	1200	V
V <sub>CEO</sub>	Collector-Emitter Voltage	500	V
V <sub>EBO</sub>	Emitter-Base Voltage	6	V
Ic	Collector Current- Continuous	2.5	А
I <sub>CP</sub>	Collector Current-Pulse	6	А
Pc	Collector Power Dissipation @ T <sub>C</sub> = 25℃	22	W
TJ	Junction Temperature	125	$^{\circ}$
T <sub>stg</sub>	Storage Temperature Range	-45~125	$^{\circ}$







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## **ELECTRICAL CHARACTERISTICS**

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = 10mA; R <sub>BE</sub> = ∞	500			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 2.5A; I <sub>B</sub> = 0.8A			5.0	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = 2.5A; I <sub>B</sub> = 0.8A			1.8	V
Ісвх	Collector Cutoff Current	V <sub>CB</sub> = 1200V; V <sub>EB</sub> = 1.5V			1	mA
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 6V; I <sub>C</sub> = 0			0.2	mA
t <sub>f</sub>	Fall Time	I <sub>C</sub> = 2.5A, I <sub>B1</sub> = 0.8A, I <sub>B2</sub> = -1.1A; L <sub>B</sub> = 10 μ H			1.2	μS

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