

isc Silicon NPN Power Transistor

2SC937

DESCRIPTION

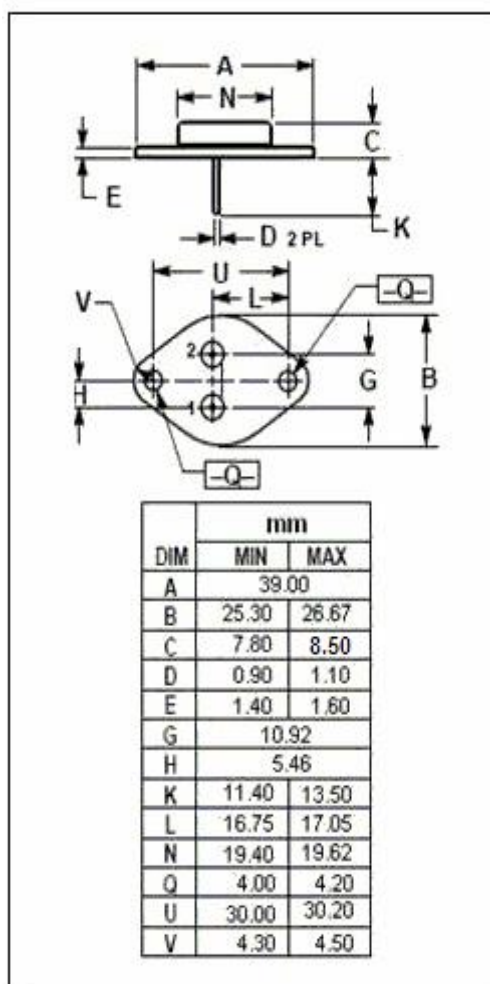
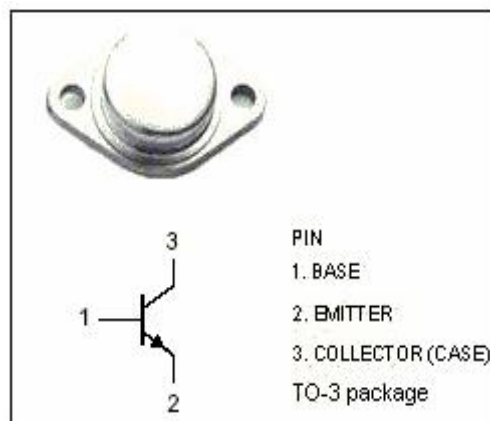
- High Breakdown Voltage-
: $V_{CBO} = 1200V(\text{Min})$
- High Reliability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for TV horizontal deflection output applications.

ABSOLUTE MAXIMUM RATINGS($T_a = 25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1200	V
V_{CEO}	Collector-Emitter Voltage	500	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current- Continuous	2.5	A
I_{CP}	Collector Current-Pulse	6	A
P_C	Collector Power Dissipation @ $T_C = 25^\circ\text{C}$	22	W
T_J	Junction Temperature	125	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-45~125	$^\circ\text{C}$



isc Silicon NPN Power Transistor**2SC937****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; R _{BE} = ∞	500			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.8A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.8A			1.8	V
I _{CBX}	Collector Cutoff Current	V _{CB} = 1200V; V _{EB} = 1.5V			1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			0.2	mA
t _f	Fall Time	I _C = 2.5A, I _{B1} = 0.8A, I _{B2} = -1.1A; L _B = 10 μH			1.2	μs

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