

isc Silicon NPN Power Transistor

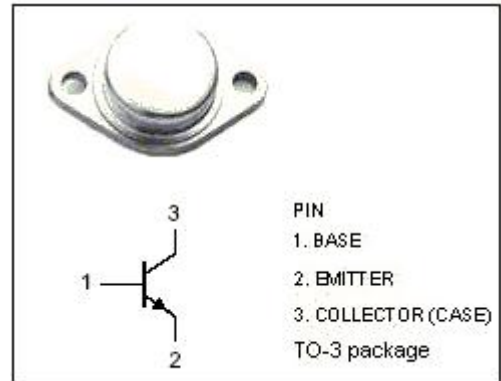
2SC1413A

DESCRIPTION

- High Collector-base breakdown voltage:1500V
- Low saturation voltage@5A
- Large area of safe operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

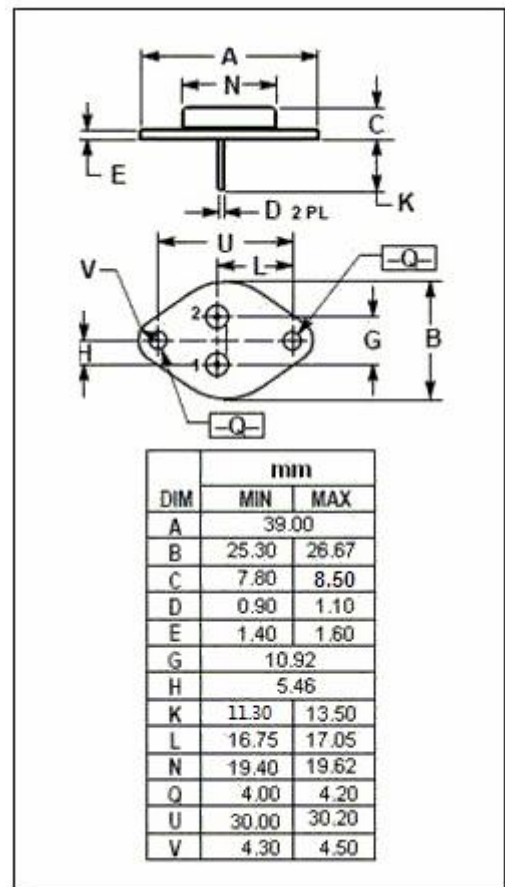
APPLICATIONS

- Designed for the horizontal output stage in power-transformer-less television receivers.



ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1500	V
V _{CEO}	Collector-Emitter Voltage	500	V
V _{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current-Continuous	5	A
P _C	Collector Power Dissipation @ T _C =25°C	50	W
	Collector Power Dissipation @ T _a =25°C	20	
T _J	Junction Temperature	230	°C
T _{stg}	Storage Temperature Range	-45~150	°C



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ELECTRICAL CHARACTERISTICS

 T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 10mA ; I _E = 0	500			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 10mA ; I _C = 0	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A ; I _B = 1.2A			10	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A ; I _B = 1.2A			2	V
I _{CBX}	Collector Cutoff Current	V _{CB} = 1500V ; V _{EB} = 1.5V			1	mA

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