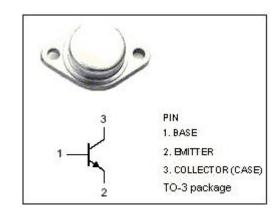


isc Silicon NPN Power Transistor

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

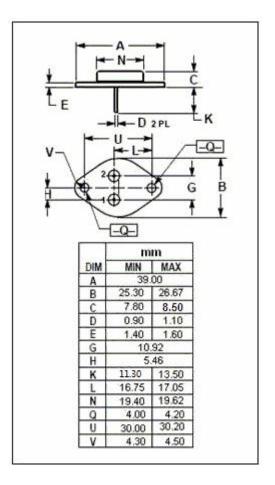


APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	1500	V	
Vceo	Collector-Emitter Voltage 500		V	
V _{EBO}	Emitter-Base Voltage 6		V	
Ic	Collector Current-Continuous	5	А	
Pc	Collector Power Dissipation @ T _C =25°C	50	W	
	Collector Power Dissipation @ T _a =25℃	20		
TJ	Junction Temperature	230	$^{\circ}$	
T _{stg}	Storage Temperature Range	-45~150	$^{\circ}$	





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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 VItage	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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