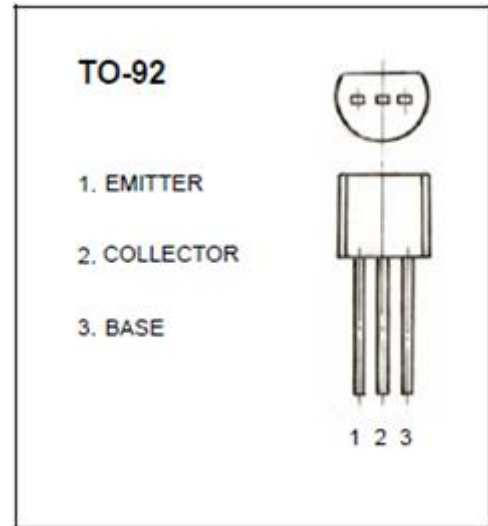


**isc Silicon PNP Transistor**
**2SA1013**
**DESCRIPTION**

- High Voltage and High Current  
V<sub>ceo</sub>=-160V(Min.)
- Excellent hFE Linearity
- Low Noise
- Complement to Type 2SC2383
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

- Audio frequency general purpose amplifier Applications
- Driver stage amplifier applications.


**ABSOLUTE MAXIMUM RATINGS(T<sub>a</sub>=25°C)**

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CBO</sub>	Collector-Base Voltage	-160	V
V <sub>CEO</sub>	Collector-Emitter Voltage	-160	V
V <sub>EBO</sub>	Emitter-Base Voltage	-6	V
I <sub>C</sub>	Collector Curren	-1	A
I <sub>B</sub>	Base Curren	-500	mA
P <sub>C</sub>	Collector Power Dissipation @T <sub>c</sub> =25°C	900	mW
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature Range	-55~150	°C

## isc Silicon PNP Transistor

2SA1013

## ELECTRICAL CHARACTERISTICS

T<sub>c</sub>=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -500mA ; I <sub>B</sub> = -50mA			-1.5	V
I <sub>CBO</sub>	Emitter Cutoff Current	V <sub>CB</sub> = -150V; I <sub>E</sub> = 0			-1.0	μ A
I <sub>EBO</sub>	Collector Cutoff Current	V <sub>EB</sub> = -6V; I <sub>C</sub> = 0			-1.0	μ A
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = -200mA ; V <sub>CE</sub> = -5V	60		200	

◆ h<sub>FE</sub> Classifications

R	O
60-120	100-200

## Notice:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.