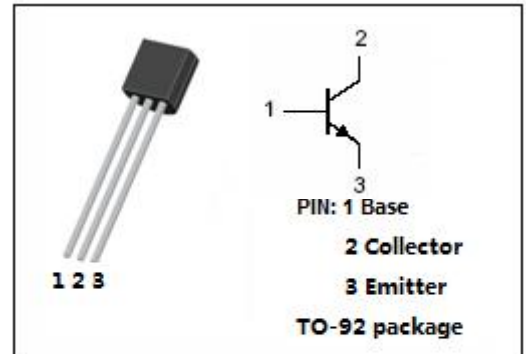


**isc Silicon NPN Power Transistor**
**2SC2705**
**DESCRIPTION**

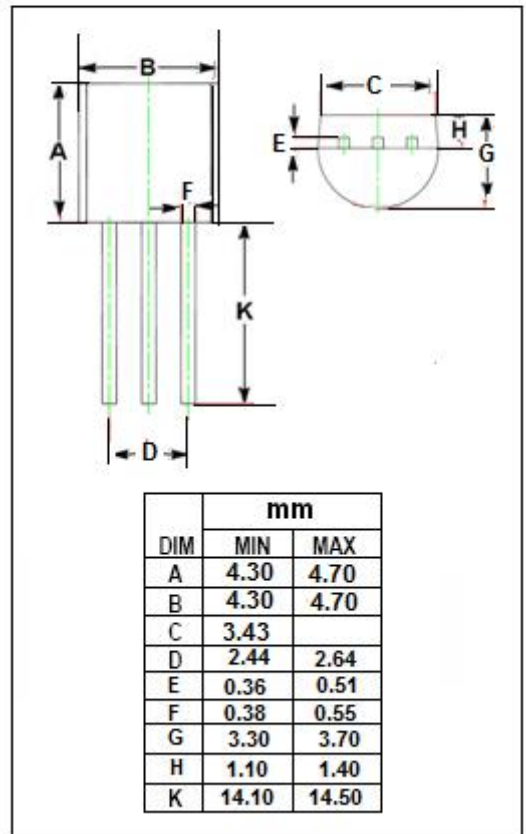
- Collector-Emitter sustaining Voltage  
:  $V_{CEO}=150V(\text{Min})$
- Good Linearity of  $h_{FE}$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

- Audio Frequency Amplifier Applications


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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	150	V
$V_{CEO}$	Collector-Emitter Voltage	150	V
$V_{EBO}$	Emitter-Base Voltage	5	V
$I_C$	Collector Current-Continuous	50	mA
$I_B$	Base Current- Continuous	5	mA
$P_C$	Total Power Dissipation @ $T_C=25^\circ\text{C}$	800	mW
$T_J$	Junction Temperature	150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature Range	-55~150	$^\circ\text{C}$



**isc Silicon NPN Power Transistor****2SC2705****ELECTRICAL CHARACTERISTICS**T<sub>c</sub>=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>CEO(BR)</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> =30mA ; I <sub>B</sub> = 0	150			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 10mA; I <sub>B</sub> = 1mA			1.0	V
V <sub>BE(sat)</sub>	Base-Emitter Voltage	I <sub>C</sub> = 10mA; V <sub>CE</sub> =5V			0.8	V
I <sub>CEO</sub>	Collector Cutoff Current	V <sub>CE</sub> = 150V ; I <sub>E</sub> = 0			0.1	μA
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> =5V; I <sub>C</sub> = 0			0.1	μA
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> =10mA ; V <sub>CE</sub> =5V	80		240	

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