

isc Silicon NPN Power Transistor

2SC2682

DESCRIPTION

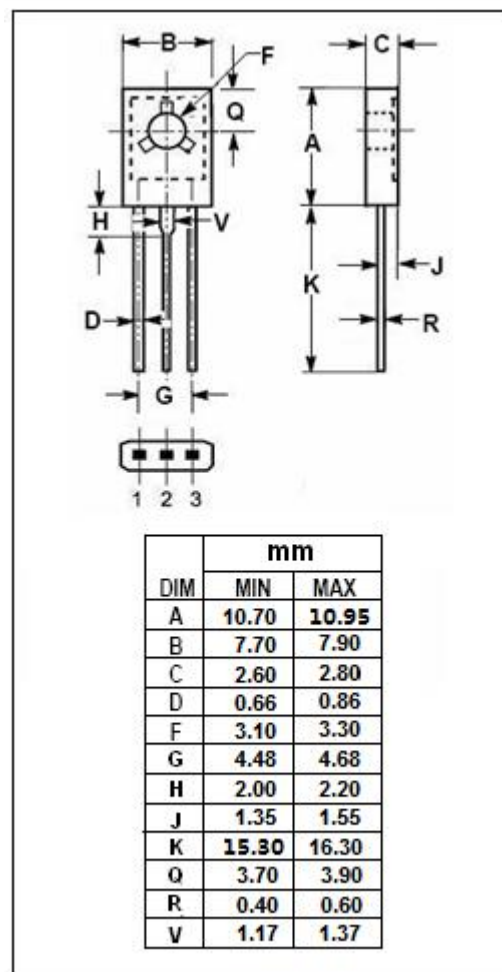
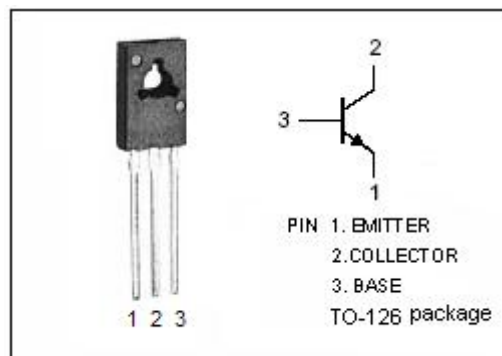
- High voltage
- Low Saturation Voltage
- Complementary to 2SA1142 PNP transistor
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- The 2SC2682 is designed for use in audio frequency power amplifier

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	180	V
V_{CER}	Collector-Emitter Voltage $R_{BE}=150\ \Omega$	180	V
V_{CEO}	Collector-Emitter Voltage	180	V
V_{EBO}	Emitter-Base Voltage	5	V
I_c	Collector Current-Continuous	0.1	A
P_c	Collector Power Dissipation @ $T_c=25^{\circ}\text{C}$	10	W
T_J	Junction Temperature	-55~150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}\text{C}$



isc Silicon NPN Power Transistor**2SC2682****ELECTRICAL CHARACTERISTICS****T_c=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =50mA; I _B = 5mA			0.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C =50mA; I _B = 5mA			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 180V ; I _E = 0			1	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1	μ A
h _{FE-1}	DC Current Gain	I _C = 1mA ; V _{CE} = 10V	90			
h _{FE-2}	DC Current Gain	I _C = 10mA ; V _{CE} = 10V	100		320	
NF	Noise figure	I _C = 1mA ; V _{CE} = 10V; RG=10KΩ,F=1KHz	4			dB

◆ h_{FE-2} Classifications

Q	P
100-200	160-320

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