

isc Silicon NPN Power Transistor
2SC2690
DESCRIPTION

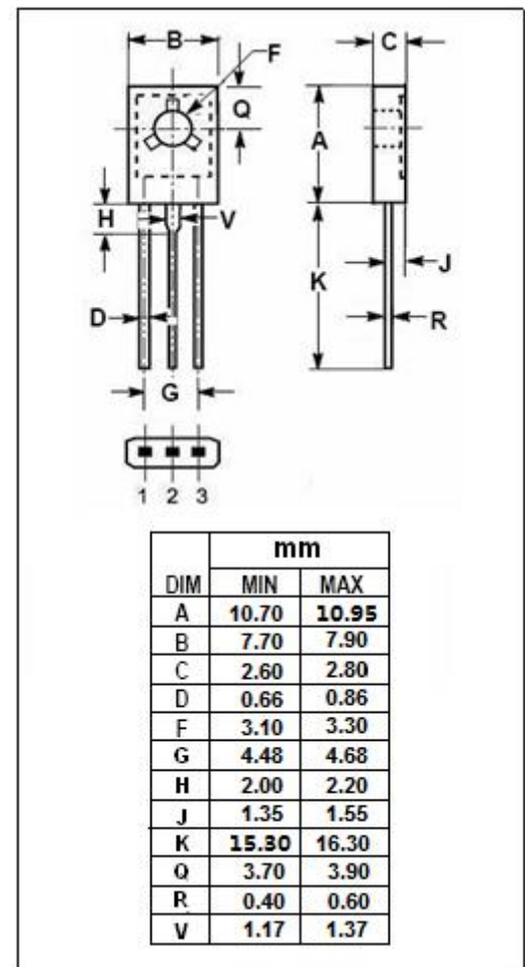
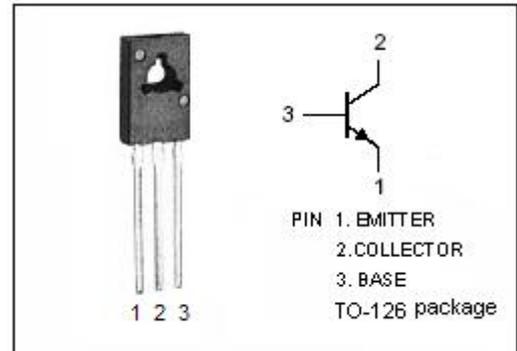
- High voltage and high f_T
- Complementary to 2SA1220 PNP transistor
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- The 2SC2690 is general purpose transistors designed For use in audio and radio frequency power amplifiers.
- Suitable for use in driver stage of 50 to 100W audio Amplifiers and output stage of TV vertical deflection circuit

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	120	V
V_{CER}	Collector-Emitter Voltage $R_{BE}=150\ \Omega$	120	V
V_{CEO}	Collector-Emitter Voltage	120	V
V_{EBO}	Emitter-Base Voltage	5	V
I_c	Collector Current-Continuous	1.2	A
P_c	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	20	W
T_J	Junction Temperature	-55~150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



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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 =1A; I _B = 200mA			0.7	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C =1A; I _B = 200mA			1.3	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 120V ; 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 = 5mA ; V _{CE} = 5V	35			
h _{FE-2}	DC Current Gain	I _C = 0.3A ; V _{CE} = 5V	60		320	

◆ h_{FE-2} Classifications

R	Q	P
60-120	100-200	160-320

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