

isc Silicon NPN Power Transistor

2SC2690

DESCRIPTION

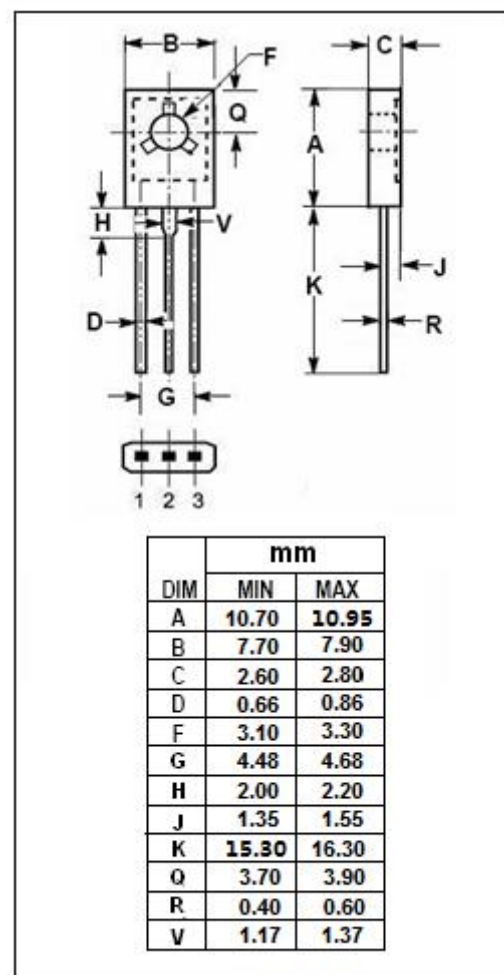
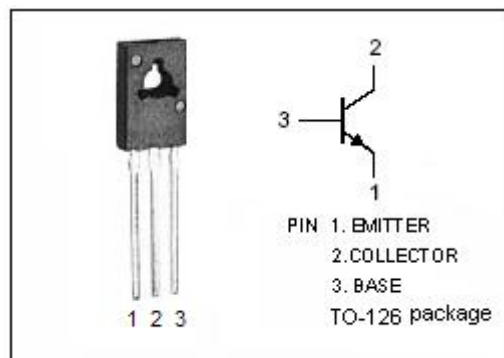
- High voltage and high f_T
- Complementary to 2SA1220 PNP transistor
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

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	$^\circ\text{C}$



isc Silicon NPN Power Transistor

2SC2690

ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=1\text{A}; I_B=200\text{mA}$			0.7	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C=1\text{A}; I_B=200\text{mA}$			1.3	V
I_{CBO}	Collector Cutoff Current	$V_{CB}=120\text{V}; I_E=0$			1	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB}=5\text{V}; I_C=0$			1	μA
h_{FE-1}	DC Current Gain	$I_C=5\text{mA}; V_{CE}=5\text{V}$	35			
h_{FE-2}	DC Current Gain	$I_C=0.3\text{A}; V_{CE}=5\text{V}$	60		320	

◆ h_{FE-2} Classifications

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

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.