

isc Silicon NPN Power Transistor

KSC2690A

DESCRIPTION

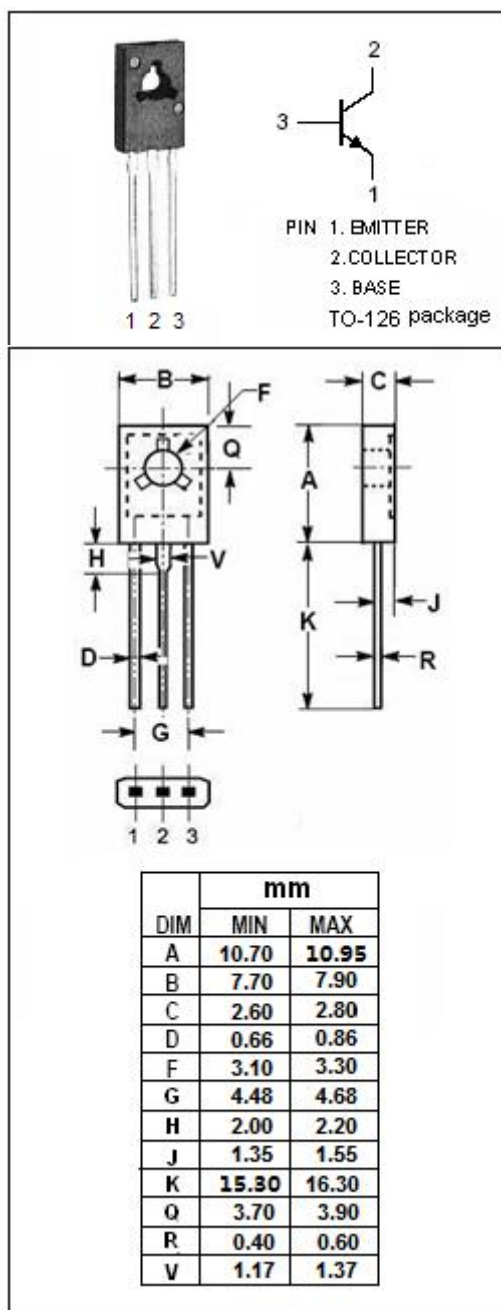
- High voltage and high f_T
- Complementary to KSA1220A PNP transistor
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

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	160	V
V_{CER}	Collector-Emitter Voltage $R_{BE}=150\ \Omega$	160	V
V_{CEO}	Collector-Emitter Voltage	160	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

 $T_c=25^{\circ}\text{C}$ 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	$V_{EB}=3\text{V}; I_C=0$			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	O	Y
60-120	100-200	160-320

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