

isc Silicon PNP Power Transistor
2SB690
DESCRIPTION

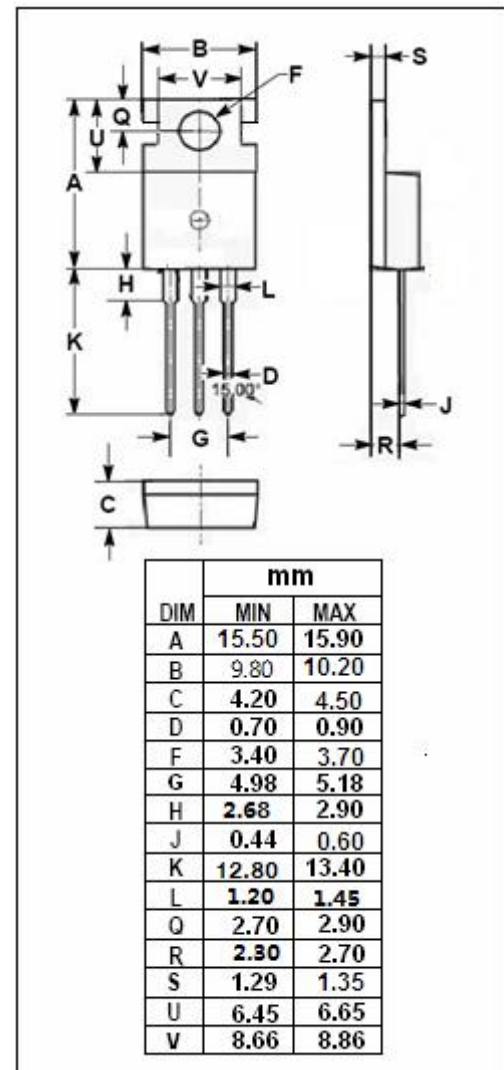
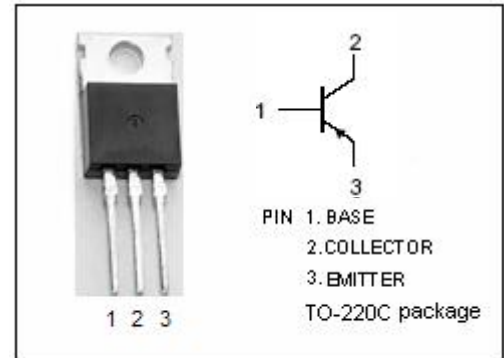
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -80V(\text{Min})$
- High Power Dissipation
- Complement to Type 2SD726
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for low frequency power amplifier applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-100	V
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-4	A
I_{CM}	Collector Current-Peak	-8	A
P_C	Total Power Dissipation @ $T_C=25^\circ\text{C}$	40	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-45~150	$^\circ\text{C}$



isc Silicon PNP Power Transistor**2SB690****ELECTRICAL CHARACTERISTICS**T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA; R _{BE} = ∞	-80			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -10 μ A; I _C = 0	-5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -2A; I _B = -0.2A			-2.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -1A; V _{CE} = -5V			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -80V; I _E = 0			-0.1	mA
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -5V	60		200	
h _{FE-2}	DC Current Gain	I _C = -0.1A; V _{CE} = -5V	35			
C _{OB}	Collector Output Capacitance	I _E = 0; V _{CB} = -20V; f= 1MHz		75		pF
f _T	Current-Gain—Bandwidth Product	I _C = -0.5A; V _{CE} = -5V		20		MHz

◆ **h_{FE-1} Classifications**

B	C
60-120	100-200

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