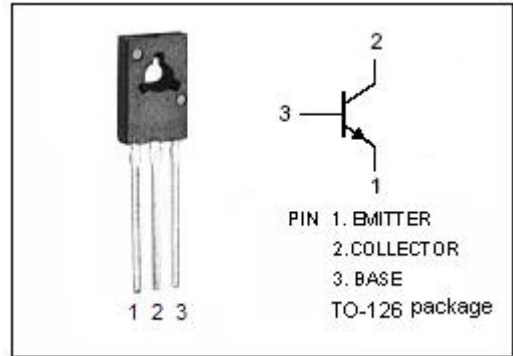


isc Silicon NPN Power Transistor
2SC2911
DESCRIPTION

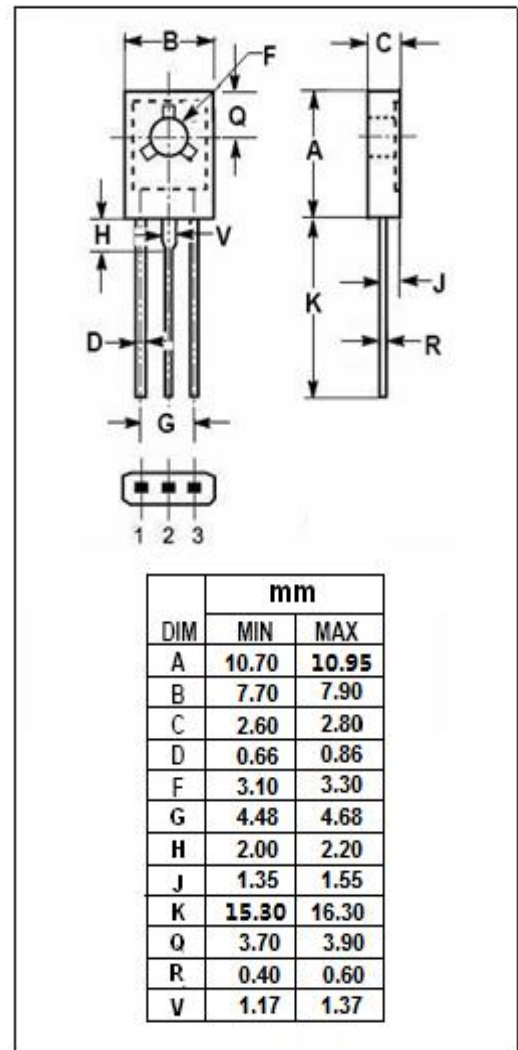
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 160V(\text{Min})$
- Good Linearity of h_{FE}
- High Switching Speed
- Complement to Type 2SA1209
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for high-voltage switching and AF 100W predriver applications.


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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	180	V
V_{CEO}	Collector-Emitter Voltage	160	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	140	mA
I_{CP}	Collector Current-Pulse	200	mA
P_C	Collector Power Dissipation @ $T_c=25^{\circ}\text{C}$	10	W
	Collector Power Dissipation @ $T_a=25^{\circ}\text{C}$	1	
T_J	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}\text{C}$



isc Silicon NPN Power Transistor

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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 = 50mA; I _B = 5mA			0.3	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 80V; I _E = 0			0.1	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0			0.1	μ A
h _{FE}	DC Current Gain	I _C = 10mA; V _{CE} = 5V	100		400	
f _T	Current-Gain—Bandwidth Product	I _C = 10mA; V _{CE} = 10V		150		MHz
C _{OB}	Collector Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1MHz		3		pF

◆ h_{FE} Classifications

R	S	T
100-200	140-280	200-400

Notice:

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