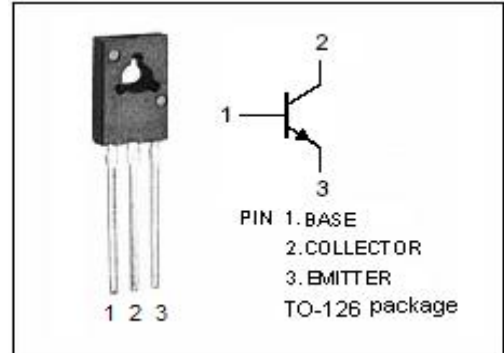


isc Silicon NPN Power Transistor
2SC2899
DESCRIPTION

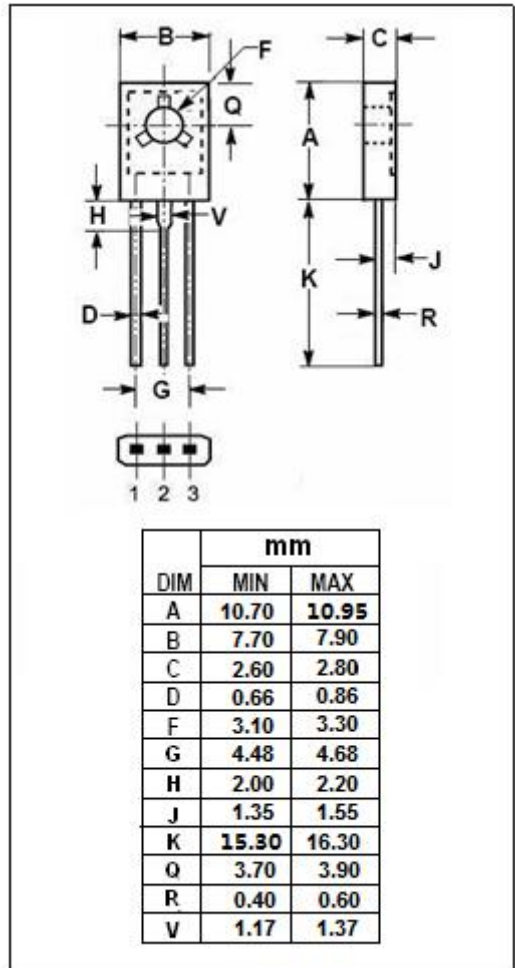
- Collector–Emitter Sustaining Voltage
: $V_{CE(SUS)} = 400V(\text{Min.})$
- Collector Saturation Voltage
: $V_{CE(sat)} = 1.0(\text{Max}) @ I_C = 0.25A$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


APPLICATIONS

- Designed for use in high-voltage, high-speed, power switching in inductive circuit, they are particularly suited for 115 and 220V switchmode applications such as switching regulators, inverters, DC-DC converter, Motor control, Solenoid/Relay drivers and deflection circuits.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector- Base Voltage	500	V
V_{CEO}	Collector-Emitter Voltage	400	V
V_{EBO}	Emitter-Base Voltage	10	V
I_C	Collector Current-Continuous	0.5	A
I_{CM}	Collector Current-peak	1.0	A
P_C	Collector Power Dissipation $T_a=25^\circ\text{C}$	0.75	W
	Collector Power Dissipation $T_C=25^\circ\text{C}$	10	
T_i	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 _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA; I _B = 0	400			V
V _{(BR)EBO}	Emitter to base breakdown voltage	I _E = 10 mA, I _C = 0	10			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 0.25 A ;I _B = 0.05A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 0.25 A ;I _B = 0.05A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 400V;I _E = 0			20	uA
I _{CEO}	Collector Cutoff Current	V _{CE} = 350V; R _{BE} = ∞			50	uA
h _{FE-1}	DC Current Gain	I _C = 0.25 A; V _{CE} = 5V	15			
h _{FE-2}	DC Current Gain	I _C = 0.5A; V _{CE} =5V	7			

NOTICE:

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