

isc Silicon NPN Power Transistor

2SC2712

DESCRIPTION

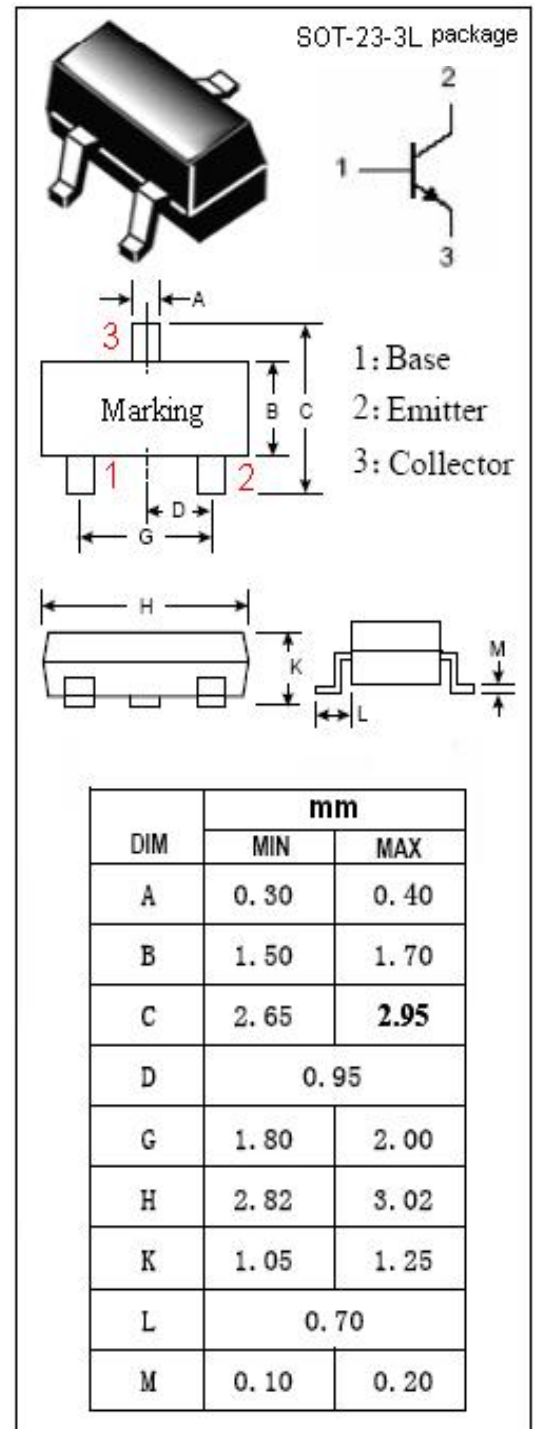
- With SOT-23 packaging
- High collector-base voltage
- High power dissipation
- Low saturation voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power amplifier applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CB0}	Collector-Base Voltage	50	V
V _{CEO}	Collector-Emitter Voltage	60	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current-Continuous	0.15	A
P _C	Collector Power Dissipation @ T _C =25°C	0.15	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



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ELECTRICAL CHARACTERISTICS

 T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = 0.1mA ; I _E = 0	60			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA ; I _B = 0	50			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = 0.1mA ; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 0.1A; I _B = 0.01A			0.25	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 0.1A; I _B = 0.01A			0.25	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 60V ; I _E = 0			0.1	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			0.1	μ A
h _{FE}	DC Current Gain	I _C = 2mA ; V _{CE} = 6V	70		700	

Classification of h_{FE}

Rank	O	Y	GR	BL
Range	70-140	120-240	200-400	350-700

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