

isc Silicon NPN Power Transistor
2SC2902
DESCRIPTION

- Excellent Safe Operating Area
- Low Collector-Emitter Saturation Voltage
- Complement to Type MJ2955
- Minimum Lot-to-Lot variations for robust device Performance and reliable operation.

APPLICATIONS

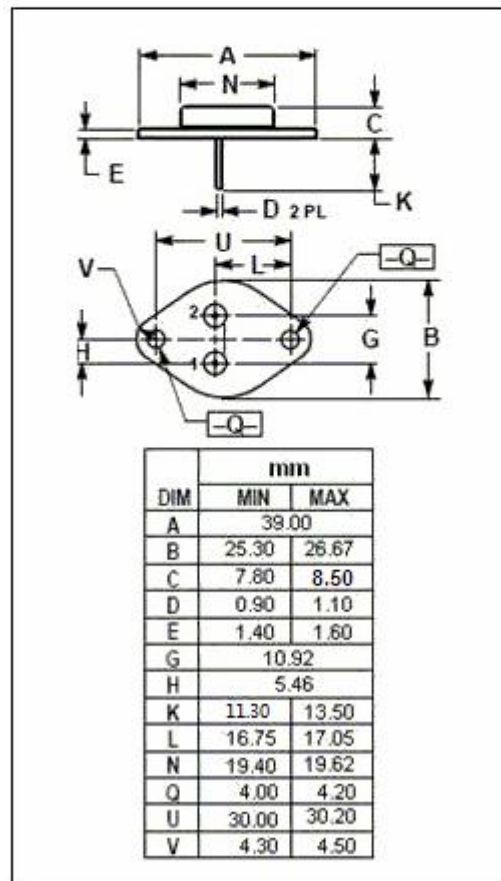
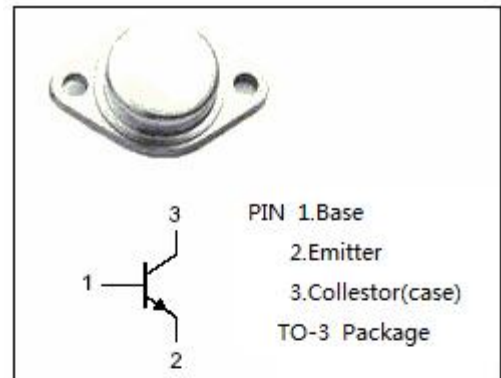
- Designed for general-purpose switching and amplifier applications

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	800	V
V _{CER}	Collector-Emitter Voltage	800	V
V _{CEO}	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base Voltage	9	V
I _C	Collector Current-Continuous	15	A
I _B	Base Current	7	A
P _C	Collector Power Dissipation@T _c =25°C	150	W
T _J , T _{stg}	Operating and Storage Junction Temperature Range	-65~+200	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.17	°C/W



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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C =30mA ; I _B =0	400		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 7.5A; I _B = 2.5A		1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 7.5A; I _B = 2.5A		1.5	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 400V; I _B =0		0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 9V; I _C =0		0.1	mA
h _{FE}	DC Current Gain	I _C = 7.5A ; V _{CE} = 5V	10	35	

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