

isc Silicon PNP Power Transistor
2SC897
DESCRIPTION

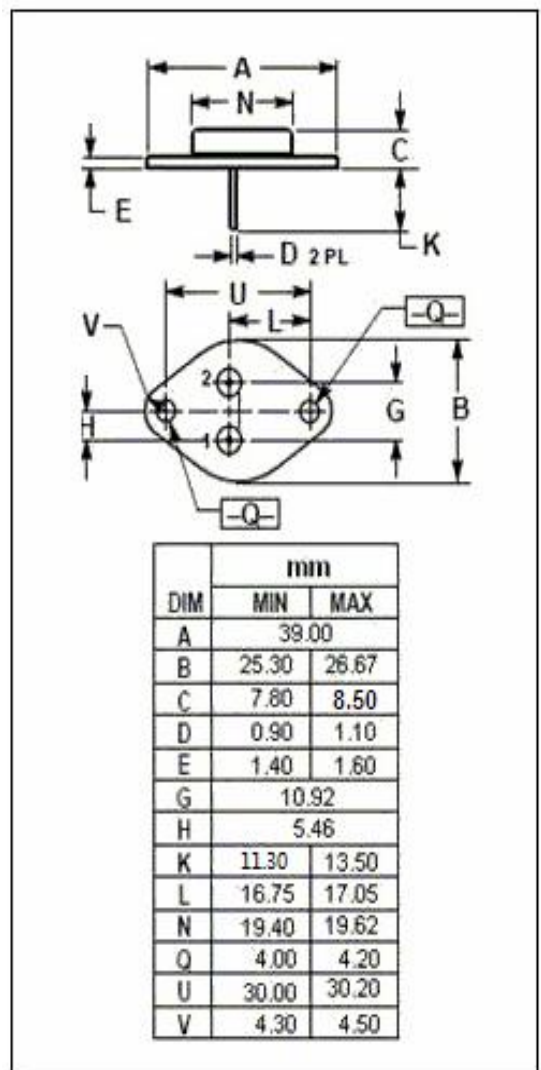
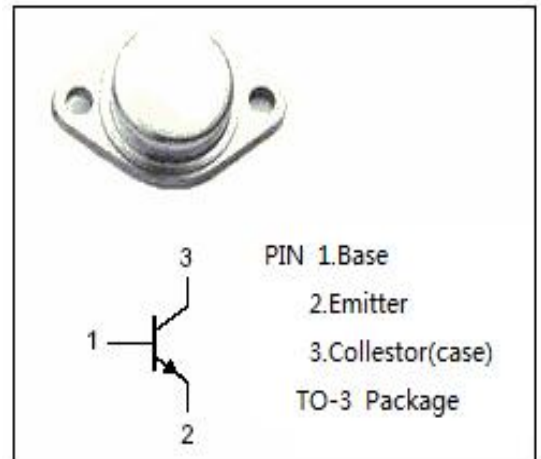
- With TO-3 packaging
- Large collector current
- Low collector saturation voltage
- High power dissipation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for use in DC-DC converter
- Driver of solenoid or motor

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CB0}	Collector-Base Voltage	120	V
V _{CEO}	Collector-Emitter Voltage	90	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current-Continuous	7	A
I _{CP}	Collector Current-Pulse	12	A
P _C	Collector Power Dissipation	60	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
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 50mA; R _{BE} = ∞	90			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 5mA; I _E = 0	120			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 5mA; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = -1A			1.8	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 1A; V _{CE} = 5V			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 120V; I _E = 0			1.0	mA
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	25		200	
h _{FE-2}	DC Current Gain	I _C = 5A; V _{CE} = 5V	20			
f _T	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 5V		24		MHz

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