

SJT688A PNP SILICON TRANSISTOR

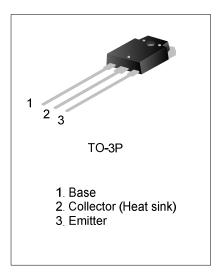
DESCRIPTIONS

SJT688APPN is PNP silicon transistor fabricated with Silan planar transistor technology, The advanced technology of multilayer epitaxy, ultra-low density of crystal defects, polyimide passivation, and thin chip of less than 200 microns makes low thermal resistance, large power dissipation and good reliability of SJT688APPN. Optimized die structure design and package design promote secondary breakdown resistance of the device.

This product is mainly used for output power level of audio power amplifier in car stereo audio, has the characteristics of wide linear range and low distortion.

The package available is TO-3P.

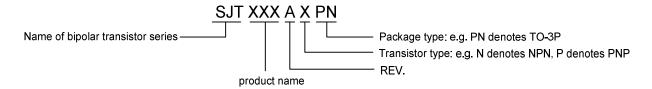
Complementary NPN transistor: SJT718ANPN.



FEATURES

- High breakdown voltage margin
- Very low leakage current
- High output power: 80W
- High secondary breakdown tolerance and reliability

NOMENCLATURE



ORDERING INFORMATION

Part No.	Package	Marking	Material	Packing
SJT688APPN	TO-3P	688A	Pb free	Tube

ABSOLUTE MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Characteristics	Symbol	Rating		Unit
Collector-Emitter Breakdown Voltage	BV _{CEO}	-120 I _C =5mA, I _B =0		V
Emitter-Base Breakdown Voltage	BV _{EBO}	-5	I _E =1mA, I _C =0	V
Collector-Base Breakdown Voltage	BV _{CBO}	-120	I _C =1mA, I _E =0	V
Collector Current	llector Current I _C -10		Α	
Base Current	I _B	-1		Α
Operating Junction Temperature Range	ΤJ	-55~+150		°C

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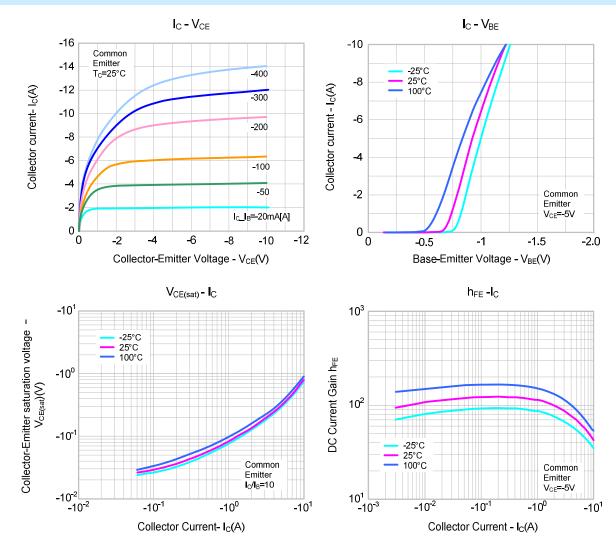
SJT688APPN_Datasheet

Characteristics	Symbol	Rating	Unit
Storage Temperature Range	T _{stg}	-55~+150	°C
Collector power dissipation (T _c =25°C)	Pc	80	W

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise noted)

Characteristics	Symbol	Test Condition	Min.	Тур.	Max.	Unit
DC Current Gain	HFE	V _{CE} =-5V, I _C =-1A	55	-	160	-
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =-6A, I _B =-0.6A	-	-	-2	V
Base - Emitter Voltage	V_{BE}	V _{CE} =-5V, I _C =-5A	-	-	-1.5	٧
Collector-Base Leakage Current	I _{CBO}	V _{CB} =-120V, I _E =0	-	-	-10	μΑ
Collector-Emitter Leakage Current	I _{CEO}	V _{CE} =-120V, I _B =0	-	-	100	μA
Emitter -Base Leakage Current	I _{EBO}	V _{EB} =-5V, I _C =0	-	-	-10	μΑ
Transition Frequency	FT	V _{CE} =-5V, I _C =-1A	-	10	-	MHZ
Collector Output Capacitance	C _{Ob}	V _{CB} =-10V, I _E =0, f =1MHz	-	230	-	pF

TYPICAL ELECTRICAL CHARACTERISTICS CURVE

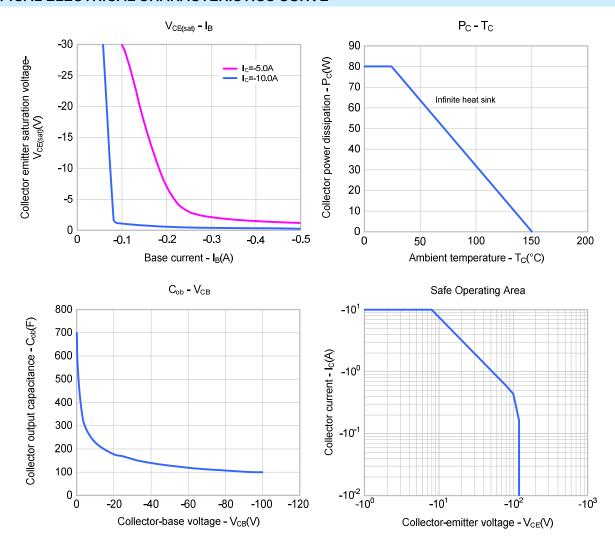


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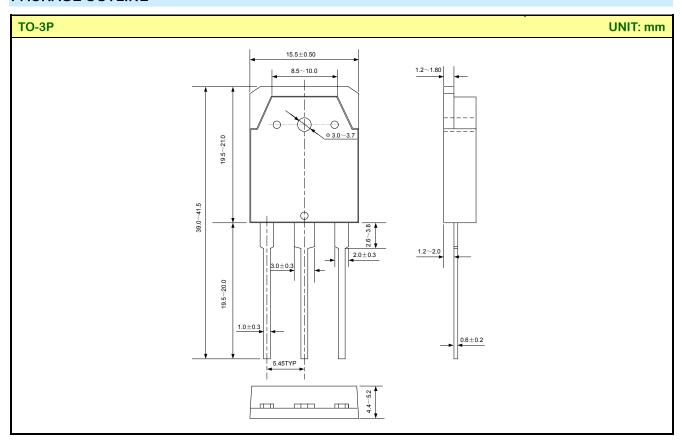
TYPICAL ELECTRICAL CHARACTERISTICS CURVE



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PACKAGE OUTLINE



Disclaimer:

- Silan reserves the right to make changes to the information herein for the improvement of the design and performance without further notice! Customers should obtain the latest relevant information before placing orders and should verify that such information is complete and current.
- All semiconductor products malfunction or fail with some probability under special conditions. When using Silan products in
 system design or complete machine manufacturing, it is the responsibility of the buyer to comply with the safety standards
 strictly and take essential measures to avoid situations in which a malfunction or failure of such Silan products could cause
 loss of body injury or damage to property.
- Silan will supply the best possible product for customers!

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SJT688APPN_Datasheet

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