

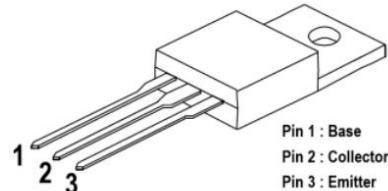
SSCN1071GT4

Silicon NPN Darlington Power Transistor

➤ Description

- Low Collector Saturation Voltage
- High DC Current Gain
- High Reliability

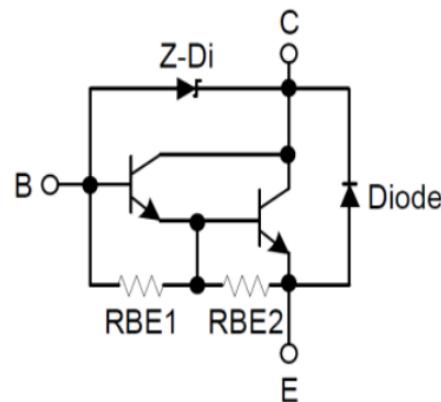
➤ Pin Configuration



TO220-3L (Top View)

➤ Applications

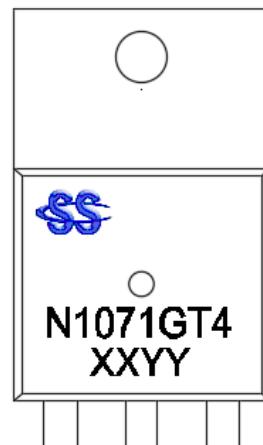
- Audio power amplifiers
- Relay & solenoid drivers
- Motor controls
- General purpose power amplifiers
- Including zener diode



Circuit Diagram

➤ Ordering Information

Device	Package	Shipping
SSCN1071GT4	TO220-3L	50/Tube



Marking

(XXYY: Internal Traceability Code)

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**➤ Absolute Maximum Ratings (T_J=25°C unless otherwise noted)**

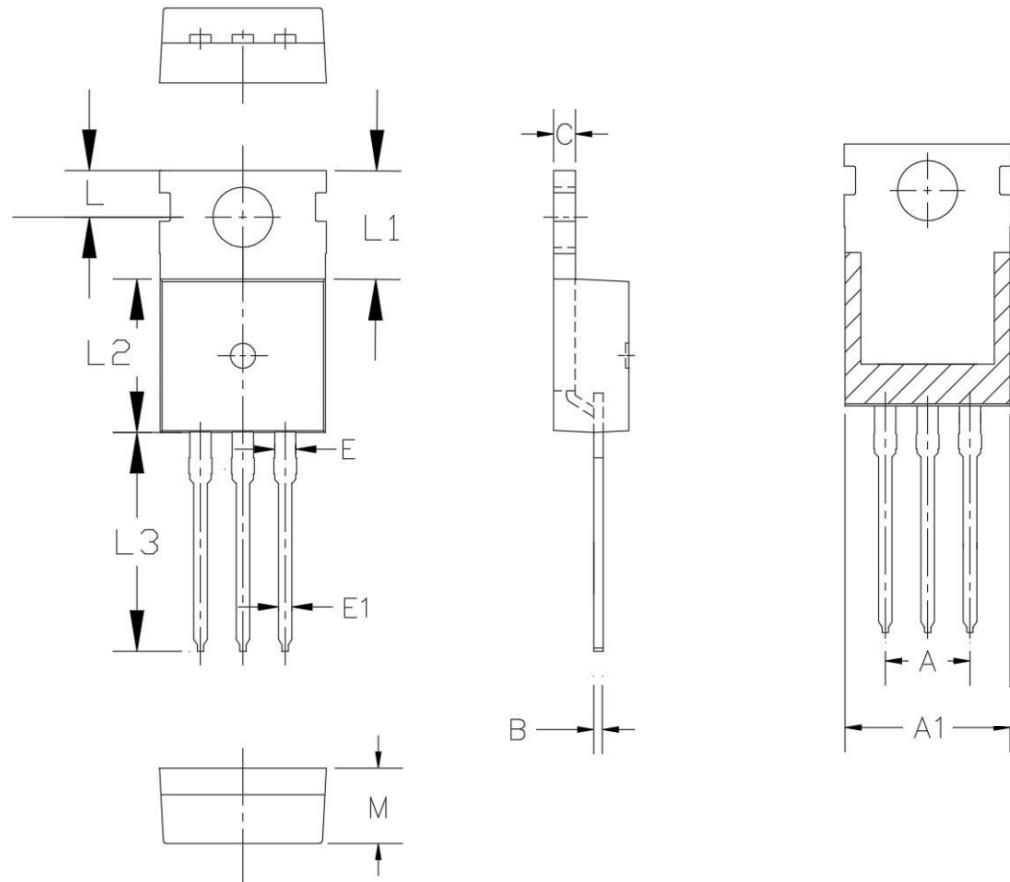
Symbol	Parameter	Ratings	Unit
V _{CBO}	Collector-Base Voltage	300	V
V _{CEO}	Collector- Emitter Voltage	300	V
V _{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current-Continuous	6	A
I _B	Base Current-Continuous	2.5	A
P _C	Power Dissipation, T _J =25°C	40	W
T _{STG} /T _J	Junction & Storage Temperature Range	-55 to 150	°C

➤ Electrical Characteristics (T_J=25°C unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Collector-Base Breakdown Voltage	BV _{CBO}	IC = 1mA	300			V
Collector-emitter Breakdown Voltage	BV _{CEO}	IC = 1mA	300			V
Emitter -Base Breakdown Voltage	BV _{EBO}	IE = 150mA	6			V
Collector Cutoff Current	I _{CBO}	V _{CB} = 300V			100	uA
Emitter Cutoff Current	I _{EBO}	V _{EB} = 6V, IC=0			150	mA
DC Current Gain	h _{FE}	V _{CE} = 10V, IC = 5A	300			
Collector-Emitter Saturation Voltage	V _{CE(sat)}	IC = 4A, IB = 15mA			1.5	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	IC = 4A, IB = 15mA			2.0	V

➤ **Information**

TO220-3L



Symbol	MILL IMETER		
	Min	Nom	Max
A	5.08 BSC		
A1	9.00	10.00	11.00
B	0.33	--	0.65
C	1.20	--	1.40
E	1.17	--	1.37
E1	0.60	--	1.10
L	2.50	--	3.00
L1	6.3	6.5	6.7
L2	8.95	--	9.75
L3	12.88	--	13.40
M	4.30	--	4.70

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