



SSCN1071GT4

Silicon NPN Darlington Power Transistor

➤ Description

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

➤ Applications

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

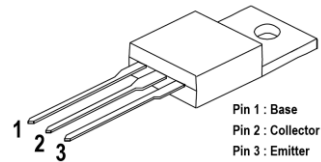
➤ Ordering Information

Device	Package	Shipping
SSCN1071GT4	TO-220-3L	25/Tube

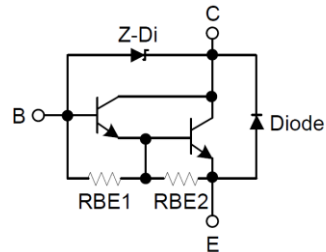
➤ Marking Information

Marking	Designator	Description
SSC1071 YW	SSC	Logo
	1071	Product model
	YW	Y: year:23 W: week:01~52

➤ Pin configuration



TO-220-3L



Circuit Diagram



SSCN1071GT4

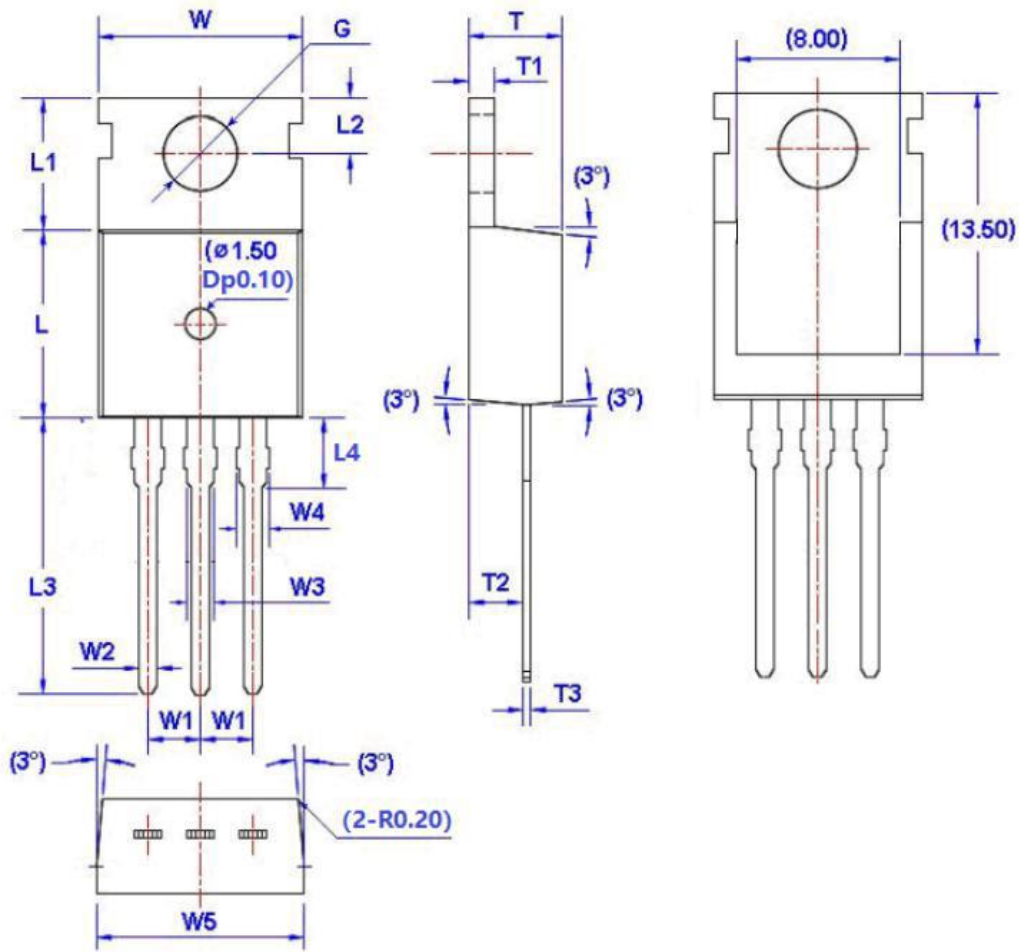
➤ **Absolute Maximum Ratings**($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CB0}	300	V
Collector- Emitter Voltage	V_{CEO}	300	V
Emitter-Base Voltage	V_{EBO}	6	V
Collector Current-Continuous	I_C	6	A
Base Current-Continuous	I_B	2.5	A
Collector Power Dissipation	P_C	40	W
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 to 150	$^{\circ}\text{C}$

➤ **Electrical Characteristics** ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Collector-Base Breakdown Voltage	BV_{CB0}	$I_C = 1\text{mA}$	300			V
Collector-emitter Breakdown Voltage	BV_{CEO}	$I_C = 1\text{mA}$	300			V
Emitter -Base Breakdown Voltage	BV_{EBO}	$I_E = 150\text{mA}$	6			V
Collector Cutoff Current	I_{CBO}	$V_{CB} = 300\text{V}$			100	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 6\text{V}, I_C=0$			150	mA
DC Current Gain	h_{FE}	$V_{CE} = 10\text{V}, I_C = 5\text{A}$	300			
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 4\text{A}, I_B = 15\text{mA}$			1.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 4\text{A}, I_B = 15\text{mA}$			2.0	V

➤ Package Information



符号	尺寸		符号	尺寸		符号	尺寸		符号	尺寸	
	Min	Max		Min	Max		Min	Max		Min	Max
W	9.80	10.20	W5	9.80	10.20	L4	(2.8~3.4)		G(Φ)	3.50	3.70
W1	2.54(TYP)		L	9.00	9.40	T	4.30	4.70			
W2	0.70	0.90	L1	6.30	6.70	T1	1.20	1.40			
W3	1.17	1.37	L2	2.70	2.90	T2	2.20	2.60			
W4	1.17	1.62	L3	12.88	13.28	T3	0.45	0.60			

注：() 内数值为参考值。尺寸不包含毛刺及模具溢料。



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