

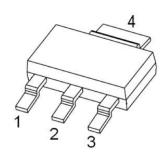
SSCN4350GS5

NPN Plastic-Encapsulate Transistors

> Description

This product has the characteristics of high current and high-power consumption. It is universal and suitable for many different applications. It can be used for power amplifiers and switches that require collector currents up to 3A.

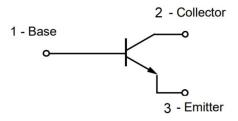
Pin configuration



SOT-223

Features

- General-purpose high-voltage amplifiers
- Gas discharge display drivers
- Medium power amplification and switching



Circuit Diagram

Ordering Information

Device	Package	Shipping
SSCN4350GS5	SOT-223	2500/Reel



Marking (Top View)



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

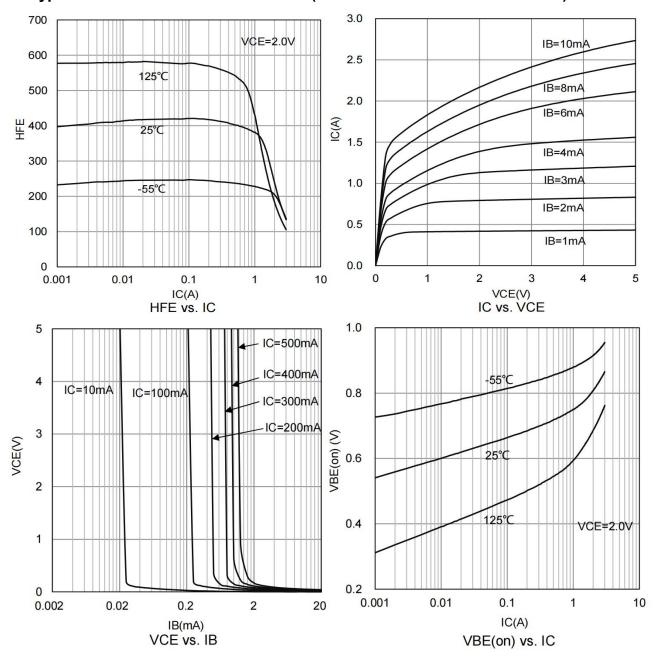
Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	60	V
Collector- Emitter Voltage	V _{CEO}	50	V
Emitter-Base Voltage	V _{EBO}	6	V
Collector Current-Continuous	Ic	3	А
Collector Power Dissipation	Pc	0.83	W
Thermal Resistance From Junction To Ambient	R _{ΘJA}	150	°C/W
Junction Temperature	TJ	-55 to 150	$^{\circ}$ C
Storage Temperature	T _{STG}	-55 to 150	$^{\circ}$ C

\succ Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Тур.	Max.	Unit
Collector-Base Breakdown Voltage	BV _{CBO}	I _C = 100uA, I _E =0	60			V
Collector-emitter Breakdown Voltage	BV _{CEO}	I _C = 10mA, I _B =0 50				V
Emitter -Base Breakdown Voltage	BV _{EBO}	I _E = 100uA, I _C =0 6				V
Collector Cutoff Current	I _{CBO}	V _{CB} = 40V, I _E =0			1	uA
Emitter Cut-off Current	I _{EBO}	V _{EB} = 4V, I _C =0	c=0		1	uA
Collector-Emitter cutoff Current	Iceo	V _{CE} = 40V, I _B =0	CE= 40V, I _B =0		10	uA
DC Current Gain	h _{FE1}	V _{CE} = 2V, I _C = 100mA	_{CE} = 2V, I _C = 100mA 200		500	
DC Current Gain	H _{FE2}	V _{CE} = 2V, I _C = 3A	35			
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C = 2A, I _B = 100mA			0.5	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	I _C = 2A, I _B = 100mA			1.2	V
Transition frequency	f⊤	V _{CE} = 10V, I _C = 50mA f=100MHz		150		MHz

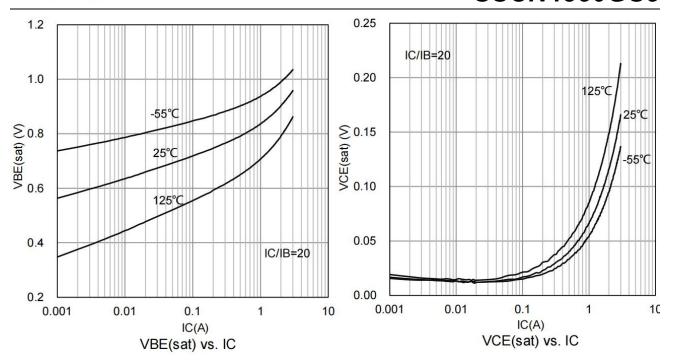


➤ Typical Performance Characteristics (T_A=25°C unless otherwise noted)

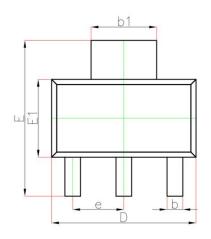


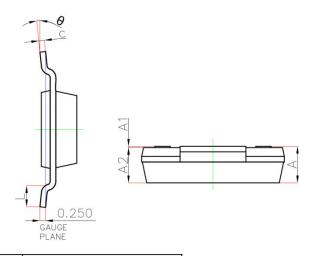


SSCN4350GS5



Package Information

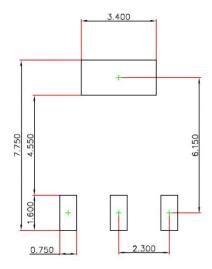




Cumbal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α		1.800		0.071	
A1	0.020	0.100	0.001	0.004	
A2	1.500	1.700	0.059	0.067	
b	0.660	0.840	0.026	0.033	
b1	2.900	3.100	0.114	0.122	
С	0.230	0.350	0.009	0.014	
D	6.300	6.700	0.248	0.264	
E	6.700	7.300	0.264	0.287	
E1	3.300	3.700	0.130	0.146	
е	2.300(BSC)		0.091	(BSC)	
L	0.750		0.030		
θ	0°	10°	0°	10°	



Recommended Pad outline (Unit: mm)



DISCLAIMER

SSCSEMI RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. SSCSEMI DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICIENCE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS.

THE GRAPHS PROVIDED IN THIS DOCUMENT ARE STATISTICAL SUMMARIES BASED ON A LIMITED NUMBER OF SAMPLES AND ARE PROVIDED FOR INFORMATIONAL PURPOSE ONLY. THE PERFORMANCE CHARACTERISTICS LISTED IN THEM ARE NOT TESTED OR GUARANTEED. IN SOME GRAPHS, THE DATA PRESENTED MAY BE OUTSIDE THE SPECIFIED OPERATING RANGE (E.G. OUTSIDE SPECIFIED POWER SUPPLY RANGE) AND THEREFORE OUTSIDE THE WARRANTED RANGE.

OUR PRODUCT SPECIFICATIONS ARE ONLY VALID IF OBTAINED THROUGH THE COMPANY'S OFFICIAL WEBSITE, CRM SYSTEM, OR OUR SALES PERSONNEL CHANNELS. IF CHANGES OR SPECIAL VERSIONS ARE INVOLVED, THEY MUST BE STAMPED WITH A QUALITY SEAL AND MARKED WITH A SPECIAL VERSION NUMBER TO BE VALID.