

SS8050

FEATURES

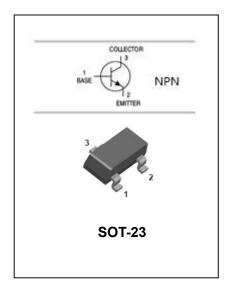
- Collector Current.(I_C= 1.5A)
- Complementary To SS8550.
- Collector dissipation:P_C=300mW(T_C=25°C)





APPLICATIONS

High Collector Current.



ORDERING INFORMATION

Type No.	Marking	Package Code
SS8050□	Y1	SOT-23

 \square : none is for Lead Free package;

"G" is for Halogen Free package.

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Parameter	Ratings	Units
V _{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	25	V
V _{EBO}	Emitter-Base Voltage	6	٧
Ic	Collector Current -Continuous	1.5	А
Pc	Collector Dissipation	300	mW
T_{j},T_{stg}	Junction and Storage Temperature	-55 to +150	$^{\circ}$ C

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SS8050

ELECTRICAL CHARACTERISTICS @ Ta=25 $^{\circ}$ C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA,I _E =0	40			٧
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =2mA,I _B =0	25			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA,I _C =0	6			>
Collector cut-off current	I _{CBO}	V _{CB} =35V,I _E =0			0.1	μA
Collector cut-off current	I _{CEO}	V _{CE} =20V,I _B =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =6V,I _C =0			0.1	μA
		V _{CE} =1V,I _C =100mA	120		400	
DC current gain	h _{FE}	V _{CE} =1V,I _C =800mA	40	110		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =800 mA, I _B = 80mA		0.28	0.5	٧
Base-emitter saturation voltage	V _{BE(sat)}	I _C =800 mA, I _B = 80mA		0.98	1.2	٧
Base-emitter voltage	V _{BE}	V _{CE} =1V I _C =10mA		0.66	1	V
Output capacitance	C _{ob}	V_{CB} =10V, I_{E} =0 f=1MHz		9.0		pF
Transition frequency	f⊤	V _{CE} =10V, I _C = 50mA f=30MHz	100	190		MHz

CLASSIFICATION OF h_{FE(1)}

Rank	L	Н	J
Range	120-200	200-350	300-400

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TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

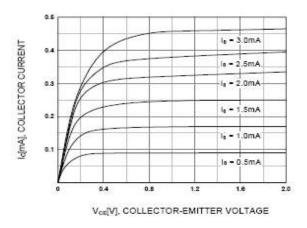


Figure 1. Static Characteristic

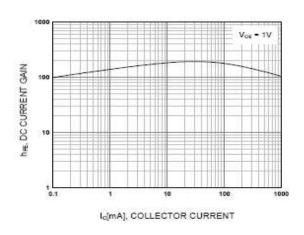


Figure 2. DC current Gain

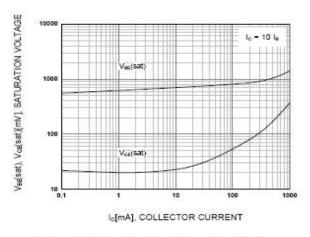


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

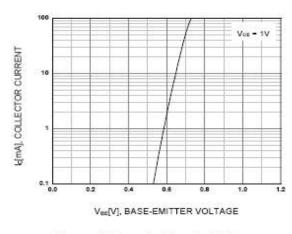


Figure 4. Base-Emitter On Voltage

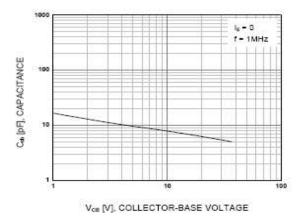


Figure 5. Collector Output Capacitance

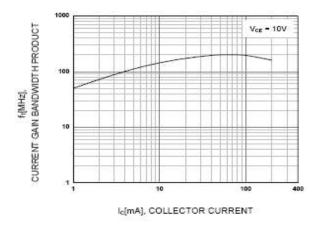


Figure 6. Current Gain Bandwidth Product

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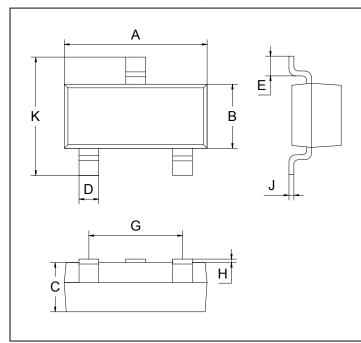


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PACKAGE OUTLINE

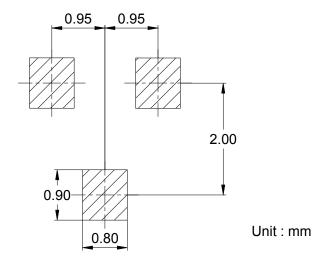
Plastic surface mounted package

SOT-23



SOT-23			
Dim	Min	Max	
Α	2.70	3.10	
В	1.10	1.50	
С	0.90	1.10	
D	0.30	0.50	
E	0.35	0.48	
G	1.80	2.00	
Н	0.02	0.10	
J	0.05	0.15	
K	2.20	2.60	
All Dimensions in mm			

SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
SS8050	SOT-23	3000/Tape&Reel