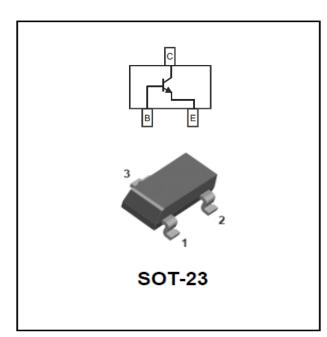


NPN General Purpose Amplifier



Features

- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moitsure Sensitivity Level 1
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion

Mechanical Data

• Package: SOT-23

Molding compound meets UL 94 V-0 flammability rating,

RoHS-compliant, halogen-free

• **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

• Marking:

SS8050-L	Y1·L
SS8050-H	Y1

■Maximum Ratings (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Value
Minimum Collector-Emitter Voltage	V_{CEO}	V	I _C =100uAdc, I _B =0	25
Minimum Collector-Base Voltage	V_{CBO}	V	I _C =100uAdc, I _E =0	40
Minimum Emitter-Base Voltage	V_{EBO}	V	I _E =100uAdc, I _C =0	5.0
Collector Current	Ic	Α		1.5
Maximum Collector-Emmiter cut-off current	I _{CEO}	nAdc	V _{CE} =20Vdc	100
Maximum Collector-Base cut-off current	І _{сво}	nAdc	V _{CB} =40Vdc	100
Maximum Emitter-Base cut-off current	I _{EB0}	nAdc	V _{E8} =5.0Vdc	100
Collector Power Dissipation	Pc	mW		300
Operation Junction Temperature	Tj	°C		-55 to +150
Storage Temperature	T_{stg}	°C		-55 to +150

■Electrical Characteristics (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Voltage	V _{CEO}	V	I _C =100uAdc, I _B =0	25	
Collector-Base Voltage	V _{CBO}	V	I _C =100uAdc, I _E =0	40	
Emitter-Base Voltage	V _{EBO}	V	I _E =100uAdc, I _C =0	5	
Collector-Emitter cut-off current	I _{CEO}	nAdc	V _{CE} =20Vdc		100
Collector-Base cut-off current	I _{CBO}	nAdc	V _{CB} =40Vdc		100
Emitter-Base cut-off current	I _{EB0}	nAdc	V _{EB} =5.0Vdc		100
DC Current Gain	h _{FE (1)}		I _C =100mA V _{CE} =1.0Vdc	120	350
DC Current Gain	h _{FE (2)}		I _C =800mA V _{CE} =1.0Vdc	40	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	Vdc	I _C =800mA I _B =80mA		0.5
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	Vdc	I _C =800mA I _B =80mA		1.2

■Small-signal Characteristics

Item	Symbol	Unit	Conditions	Min	Max
Transition frequency	f⊤	MHz	I _C =50mAdc, V _{CE} =10Vdc,f=30MHz	100	

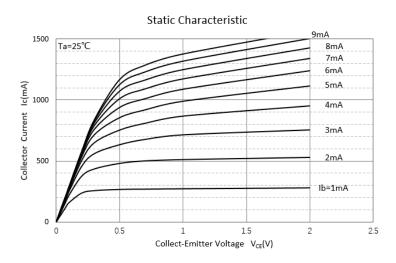
■CLASSIFICATION OF HFE (1)

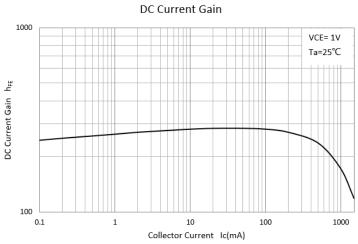
Rank	L	н
Range	120-200	200-350

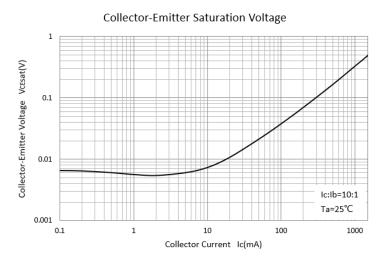
■Ordering Information (Example)

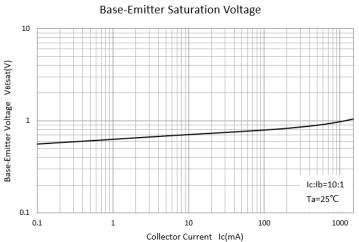
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS8050	F2	Approximate 0.008	3000	30000	120000	7" reel

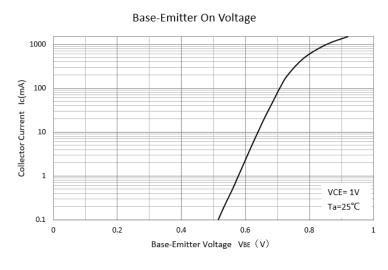
■Characteristics (Typical)

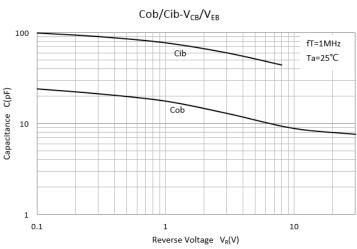






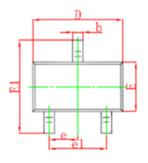


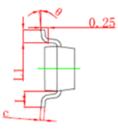


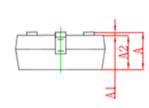




■SOT-23 Package Outline Dimensions

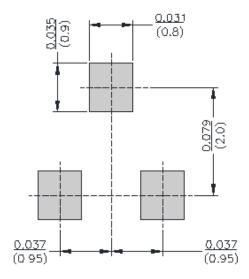






Symbol	Dimensions In	Millimeters	Dimensions In Inches		
Symool	Min	Max	Min	Max	
A	0. 900	1. 150	0.035	0.045	
A1	0.000	0. 100	0.000	0.004	
A2	0. 900	1. 050	0. 035	0.041	
b	0.300	0. 500	0.012	0.020	
c	0. 100	0. 200	0.004	0.008	
D	2, 800	3, 000	0. 110	0. 118	
Е	1. 200	1. 400	0.047	0. 055	
E1	2. 250	2, 550	0.089	0. 100	
e	0.95	OTYP	0. 037TYP		
e1	1. 800	2. 000	0.071	0. 079	
L	0.55	OREF	0. 022REF		
L1	0.300	0. 500	0.012	0.020	
θ	0°	8°	0°	8*	

■SOT-23 Soldering Footprint





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