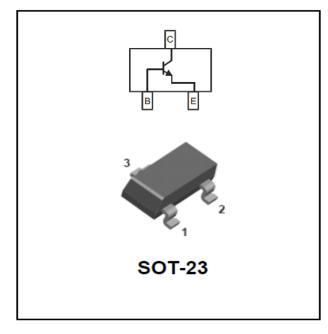


NPN General Purpose Amplifier



Features

- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture Sensitivity Level 1
- Marking:

S8050-L	J3Y•L
S8050-H	J3Y

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

Item	Symbol	Unit	Conditions	Value
Collector-Base Voltage	V _{CBO}	V		40
Collector-Emitter Voltage	V _{CEO}	V		25
Emitter-Base Voltage	V _{EBO}	V		5
Collector Current	Ι _c	mA		500
Collector Power Dissipation	Pc	mW		300
Operation Junction Temperature	Tj	°C		150
Storage Temperature	T _{stg}	°C		-55 to +150

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

Item	Symbol	Unit	Conditions	Min	Тур	Max
Collector-base breakdown voltage	V _{CBO}	V	IC=100uA,IE=0	40		
Collector-emitter breakdown voltage	$V_{CEO^{\star}}$	V	IC =100uA,IB=0	25		
Emitter-base breakdown voltage	V _{)EBO}	V	IE=100µA,IC=0	5		
Collector-Emitter cut-off current	I _{CEX}	nA	VCE=20V, VBE=3V			100
Collector-base cut-off current	I _{CBO}	nA	VCB=40V, IE=0			100
Emitter-base cut-off current	I _{EBO}	nA	VEB=5V, IC =0			100
	h _{FE} (1)		VCE=1V,IC=50mA	120		350
DC current gain	h _{FE (2)}		VCE=1V,IC=500mA	50		
Collector-emitter saturation voltage	V _{CE(sat)}	V	IC=500mA,IB=50mA			0.6
Base-emitter saturation voltage	$V_{BE(sat)}$	V	IC=500mA,IB=50mA			1.2
Transition frequency	f _T	MHz	VCE=6V,IC=20mA,f=30MHz	150		





DC Current Gain

■Classification Of HFE

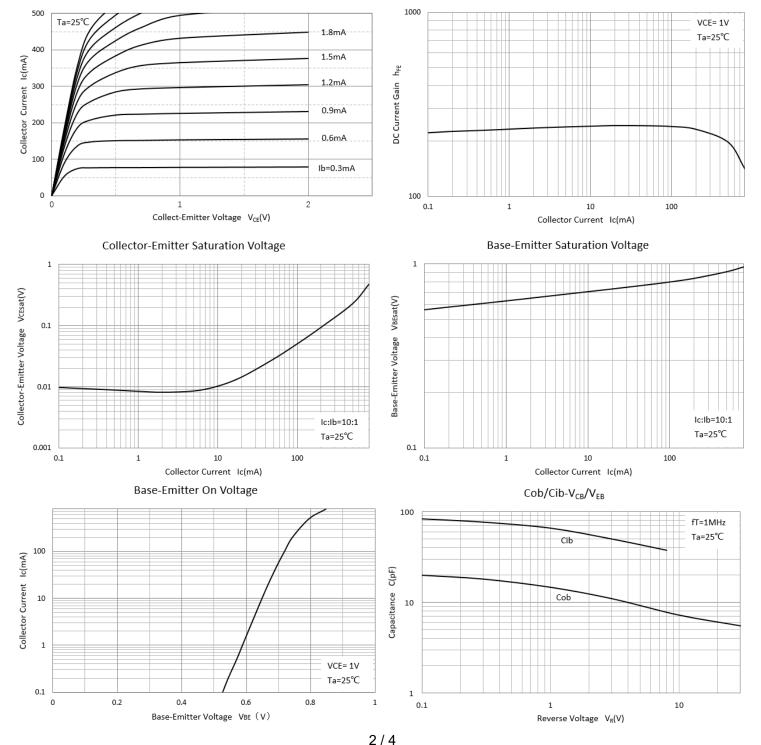
Rank	L	н
Range	120-200	200-350

Ordering Information (Example)

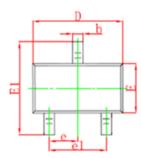
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
S8050	F2	Approximate 0.008	3000	30000	120000	7" reel

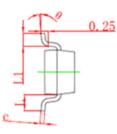
Characteristics (Typical)

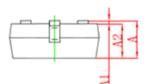




■SOT-23 Package Outline Dimensions

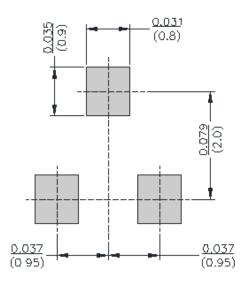






Symbol	Dimensions In	n Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
A	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
c	0.100	0.200	0.004	0.008	
D	2.800	3.000	0.110	0.118	
Е	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.95	OTYP	0. 037IYP		
el	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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