

SOT-23 Plastic-Encapsulate Transistors

Features

- Complementary to SS8050.
- 300mW; Power Dissipation of 300mW
- High Stability and High Reliability

Mechanical Data

- SOT-23 Small Outline Plastic Package
- Epoxy UL: 94V-0
- Mounting Position: Any





Marking: Y2

SOT-23

Pin definition



1. BASE 2. EMITTER

3. COLLECTOR

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)			
Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	-40	V
Collector-Emitter Voltage	V _{CEO}	-25	V
Emitter -Base Voltage	V _{EBO}	-5	V
Collector Current-Continuous	Ι _C	-1500	mA
Collector Power Dissipation	Pc	300	mW
Operating junction temperature range	TJ	150	°C
Storage temperature range	T _{STG}	-55-+150	°C
Thermal Resistance from Junction to Ambient	Reja	417	°C/W

Electrical Specifications(TA=25°C unless otherwise noted)

Barran Alan			Limits			
Parameter	Symbol	Test Conditions	Min	Max	Unit	
Collector-base breakdown voltage	V(BR)CBO	IC=-100uA, IE=0	-40			
Collector-emitter breakdown voltage	V(BR)CEO	IC=-0.1mA, IB=0	-25		V	
Emitter-base breakdown voltage	V(BR)EBO	IE=-100uA, IC=0	-5			
Collector cut-off current	ICEO	VCE=-20V, IB=0		-100		
Collector cut-off current	ICBO	VCB=-40V, IE=0		-100 nA		
Emitter cut-off current	IEBO	VEB=-3V, IC=0		-100		
DC ourrent goin	hFE(1)	VCE=-1V, IC=-100mA	120	400		
DC current gain	hFE(2)	VCE=-1V, IC=-800mA	50			
Collector-emitter saturation voltage	VCE(sat)	IC=-800mA, IB=-80mA		-0.60	V	
Collector-emitter saturation voltage	VBE(sat)	IC=-800mA, IB=-80mA		-1.20	v	
Base-emitter voltage	VBE	VCE=-1V, IC=-10mA		-1.00		
Transition frequency	fT	VCE=-10V, IC=-50mA,f=30MHz	100		MHz	
Collector output capacitance	Cob	VCB=-10V,IE=0,f=1MHz		20	pF	

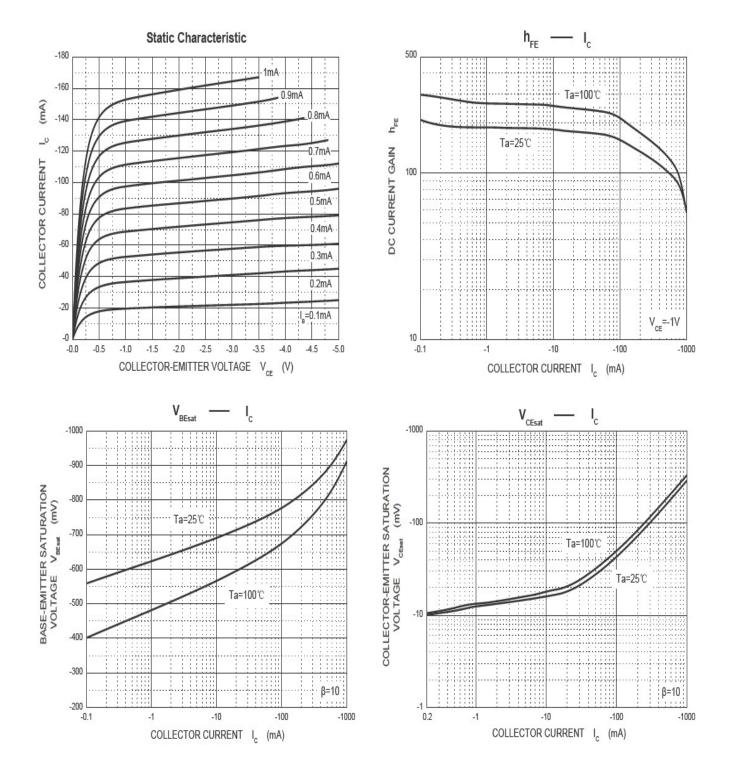
Classification OF hFE(2)			
RANK	L	Н	J
RANGE	120-200	200-350	300-400



SS8550 GOOD-ARK Electronics

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

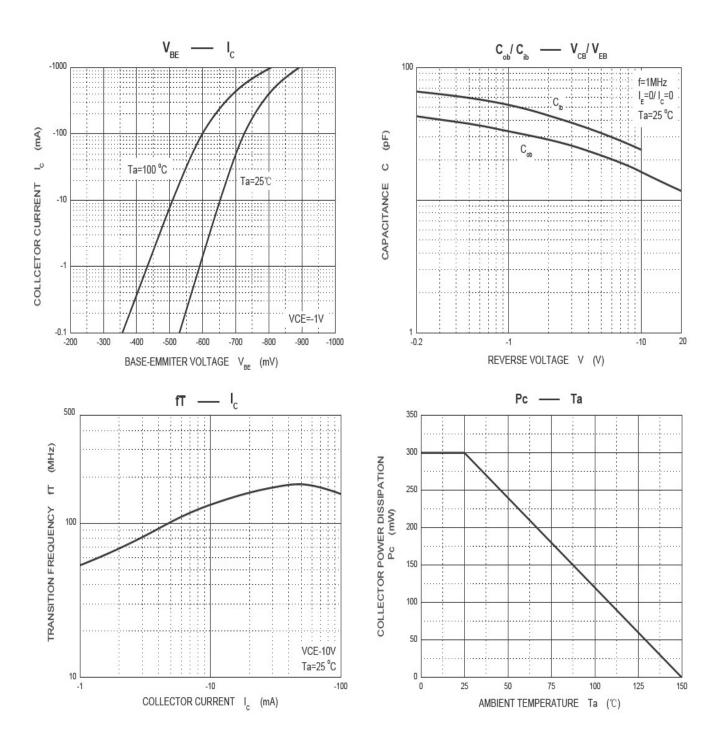




SS8550 GOOD-ARK Electronics

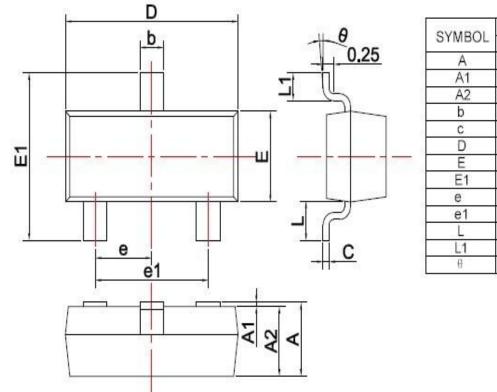
Ratings and Characteristics Curves

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Package Outline Dimensions in inches (millimeters)



SYMBOL	DIMENSIONS		
	MIN.	MAX	
A	0.900	1.150	
A1	0.000	0.100	
A2	0.900	1.050	
b	0.300	0.500	
С	0.080	0.150	
D	2.800	3.000	
E	1.200	1.400	
E1	2.250	2.550	
е	0.950TYP		
e1	1.800	2.000	
L	0.550REF		
L1	0.300	0.500	
θ	0°	8°	

Unit: mm

Revision History

Document Version	Date of release	Description of changes
Rev.A	2017.02.16	First issue



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