

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

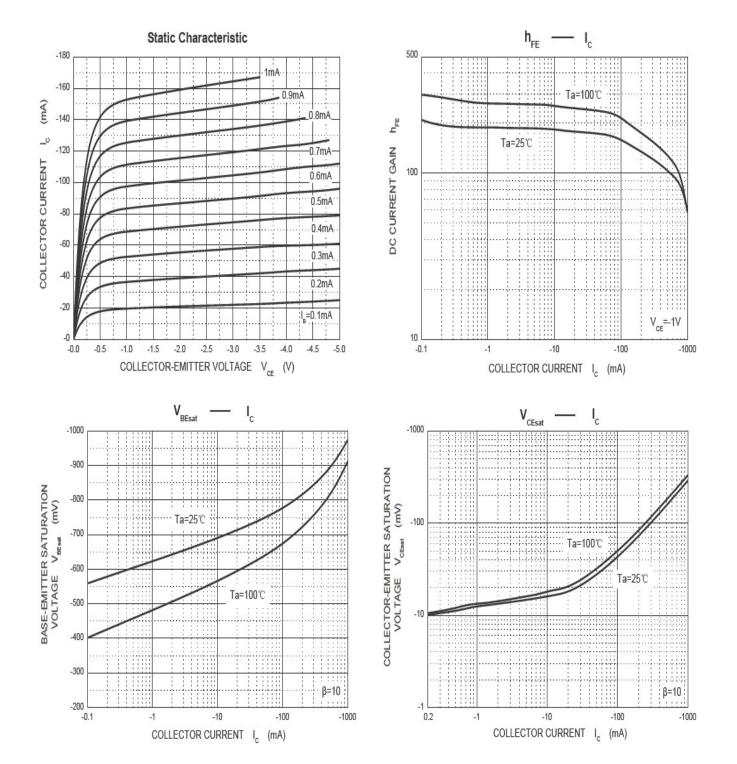
Classification OF hFI	E(2)		
RANK	L	Н	J
RANGE	120-200	200-350	300-400



SS8550 GOOD-ARK Electronics

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

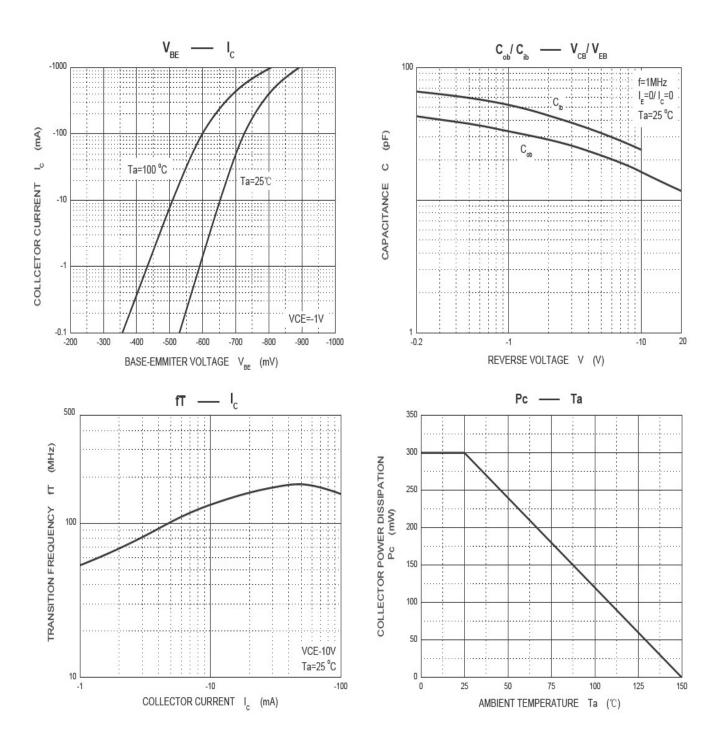




SS8550 GOOD-ARK Electronics

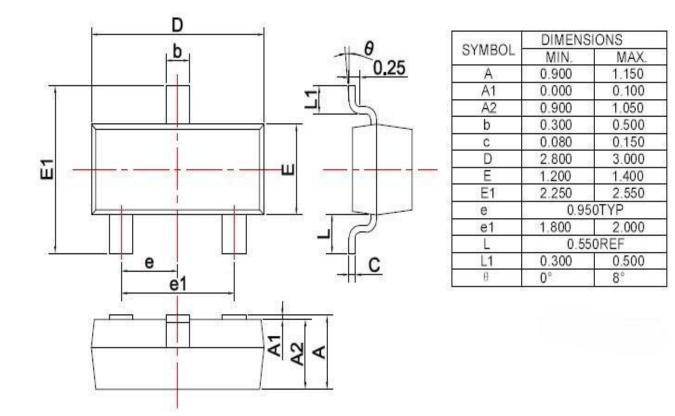
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Package Outline Dimensions millimeters



Revision History

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



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