



SOT-23 Plastic-Encapsulate Transistors

Features

• Complementary to S8550.

• 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: J3Y

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	I _C	500	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	

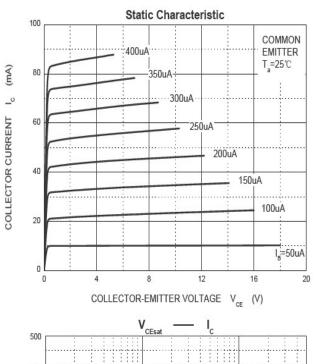
Electrical Specifications(TA=25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions	Limits		Unit	
		rest Conditions	Min	Max	Oilit	
Collector-base breakdown voltage	V(BR)CBO	IC=100uA, IE=0	40			
Collector-emitter breakdown voltage	V(BR)CEO	IC=1mA, IB=0	25		V	
Emitter-base breakdown voltage	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=5V, IC=0		100		
DC current gain	hFE(1)	VCE=1V, IC=50mA	120	400		
	hFE(2)	VCE=1V, IC=500mA	50			
Collector-emitter saturation voltage	VCE(sat)	IC=500mA, IB=50mA		0.60	V	
Collector-emitter saturation voltage	VBE(sat)	IC=500mA, IB=50mA		1.20]	
Transition frequency	fT	VCE=6V, IC=20mA,f=30MHz	150		MHz	

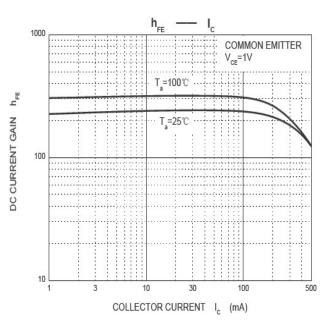
Classification OF hFE(2)				
RANK	L	Н	J	
RANGE	120-200	200-350	300-400	

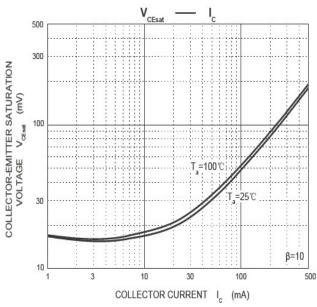


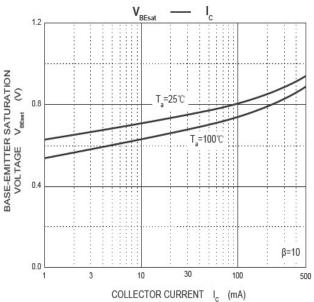
Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)





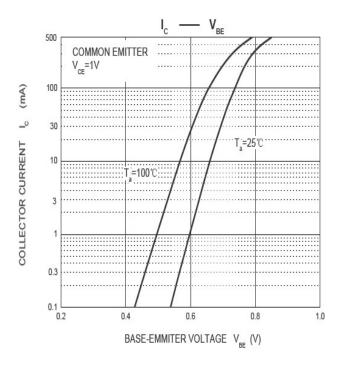


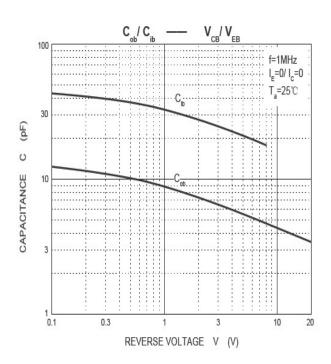


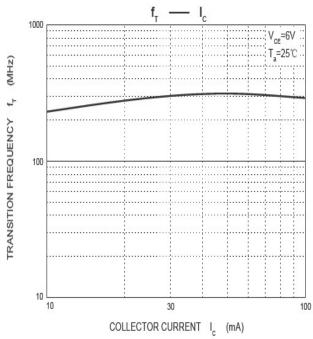


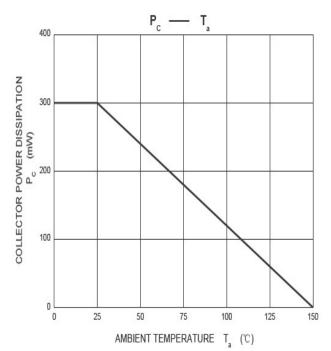
Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)







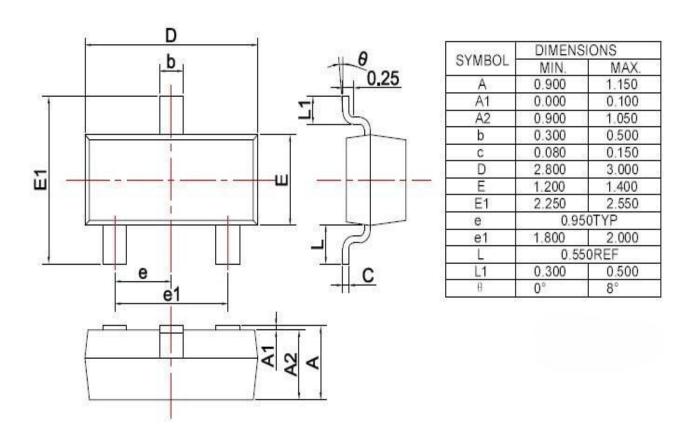






Package Outline Dimensions

millimeters



Revision History

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



Disclaimers

These materials are intended as a reference to assist our customers in the selection of the Suzhou Good-Ark product best suited to the customer's application; they do not convey any license under any intellectual property rights, or any other rights, belonging to Suzhou Good-Ark Electronics Co., Ltd.or a third party.

Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, or infringement of any third-party's rights, originating in the use of any product data, diagrams, charts, programs, algorithms, or circuit application examples contained in these materials.

All information contained in these materials, including product data, diagrams, charts, programs and algorithms represents information on products at the time of publication of these materials, and are subject to change by Suzhou Good-Ark Electronics Co., Ltd. without notice due to product improvements or other reasons. It is therefore recommended that customers contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized Suzhou Good-Ark Electronics Co., Ltd. for the latest product information before purchasing a product listed herein. The information described here may contain technical inaccuracies or typographical errors. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability, or other loss rising from these inaccuracies or errors. Please also pay attention to information published by Suzhou Good-Ark Electronics Co., Ltd. by various means, including our website home page. (http://www.goodark.com)

When using any or all of the information contained in these materials, including product data, diagrams, charts, programs, and algorithms, Please be sure to evaluate all information as a total system before making a final decision on the applicability of the information and products. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability or other loss resulting from the information contained herein.

The prior written approval of Suzhou Good-Ark Electronics Co., Ltd. is necessary to reprint or reproduce in whole or in part these materials.

Please contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized distributor for further details on these materials or the products contained herein.