

SS8050 NPN Transistors

General description

SOT-23 Plastic-Encapsulate Transistors

SOT-23

FEATURES

• Complementary to SS8550

- Power Dissipation of 300mW
- High Stability and High Reliability

1. BASE 2. EMITTER 3. COLLECTOR



MECHANICAL DATA

SOT-23 Small Outline Plastic Package

- Epoxy UL: 94V-0
- Mounting Position: Any

Marking: Y1

Maximum Ratings & Thermal Characteristics T_A = 25°C unless otherwise noted

Parameters	Symbol	Value	Unit
Collector-Base Voltage	Vсво	40	V
Collector-Emitter Voltage	VCEO	25	V
Emitter -Base Voltage	VEBO	5	\ \
Collector Current-Continuous	Ic	1500	mA
Collector Power Dissipation	Pc	300	mW
Junction Temperature	Tj	150	$^{\circ}$ C
Storage Temperature	Tstg	-55-+150	$^{\circ}$ C
Thermal resistance From junction to ambient	Reja	417	°C/W

Electrical Characteristics T_A = 25°C unless otherwise noted

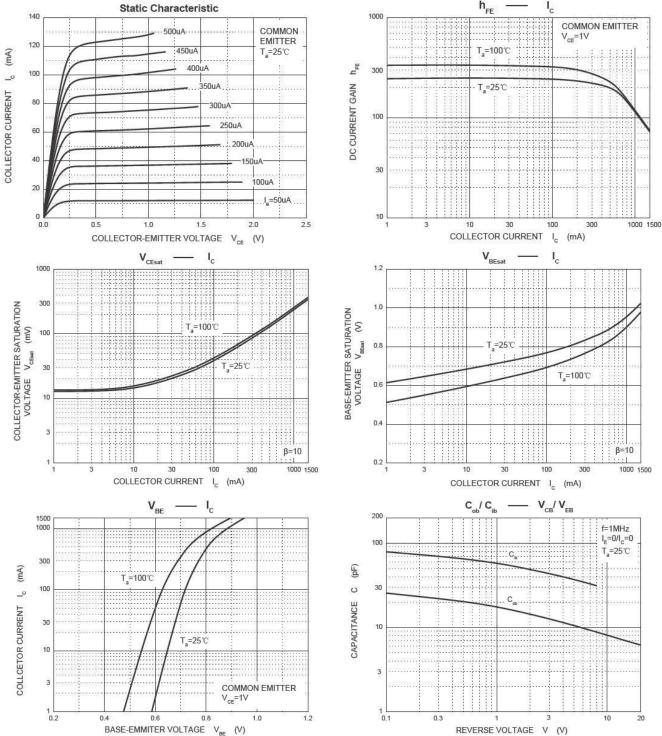
Parameter	Symbols	Test Condition	Limits		Unit
Parameter	Syllibols		Min	Max	Oillt
Collector-base breakdown voltage	V(BR)CBO	IC=100uA, IE=0	40		V
Collector-emitter breakdown voltage	V(BR)CEO	IC=0.1mA, IB=0	25		V
Emitter-base breakdown voltage	V(BR)EBO	IE=100uA, IC=0	5		V
Collector cut-off current	ICEO	VCE=20V, IB=0		100	nA
Collector cut-off current	ICBO	VCB=40V, IE=0		100	nA
Emitter cut-off current	IEBO	VEB=5V, IC=0		100	nA
DC current gain	hFE(1)	VCE=1V, IC=100mA	120	400	
	hFE(2)	VCE=1V, IC=800mA	50		
Collector-emitter saturation voltage	VCE(sat)	IC=800mA, IB=80mA		0.60	V
Base -emitter saturation voltage	VBE(sat)	IC=800mA, IB=80mA		1.20	V
Transition frequency	fτ	VCE=10V, IC=50mA,f=30MHz	100		MHz

CLASSIFICATION OF hfe(1)

RANK	L	Н	J
RANGE	120-200	200-350	300-400

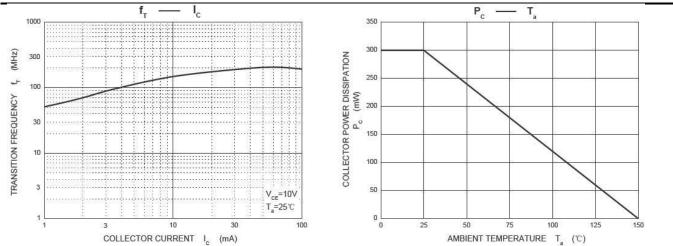




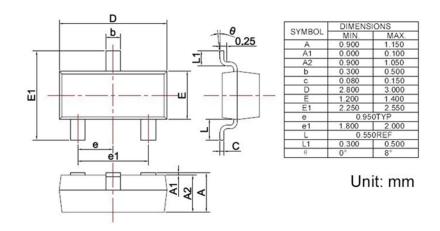


SS8050

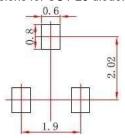




SOT-23 PACKAGE OUTLINE Plastic surface mounted package



Recommended land dimensions for SOT-23 diode. Electrode patterns for PCBs



- Note:
 1.Controlling dimension: in millilmeters,
 2.General tolerance: ± 0.05mm.
 3.The pad layout is for reference purposes only,



Important Notice and Disclaimer

DOESHARE has used reasonable care in preparing the information included in this document, but DOESHARE does not warrant that such information is error free. DOESHARE assumes no liability whatsoever for any damages incurred by you resulting from errors in or omissions from the information included herein.

DOESHARE no warranty, representation or guarantee regarding the documents, circuits and products specification, DOESHARE reservation rights to make changes for any documents, products, circuits and specifications at any time without notice.

Purchasers are solely responsible for the choice, selection and use of the DOESHARE products and services described herein, and DOESHARE assumes no liability whatsoever relating to the choice, selection or use of the products and services described herein.

No license, express or implied, by implication or otherwise under any intellectual property rights of DOESHARE.

Resale of DOESHARE products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by DOESHARE for the DOESHARE product or service described herein and shall not create or extend in any manner whatsoever, any liability of DOESHARE.