

S9015 PNP Transistors

General description

SOT-23 Plastic-Encapsulate Transistors

SOT-23

FEATURES

- Complementary to S9014
- Power Dissipation of 200mW
- 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: M6

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

Parameters	Symbol	Value	Unit
Collector-Base Voltage	Vсво	-50	V
Collector-Emitter Voltage	VCEO	-45	V
Emitter -Base Voltage	Vево	-5	V
Collector Current-Continuous	Ic	-100	mA
Collector Power Dissipation	Pc	200	mW
Junction Temperature	Tj	150	$^{\circ}$
Storage Temperature	Tstg	-55-+150	$^{\circ}$
Thermal resistance From junction to ambient	Reja	625	°C/W

Electrical Characteristics $T_A = 25$ °C unless otherwise noted

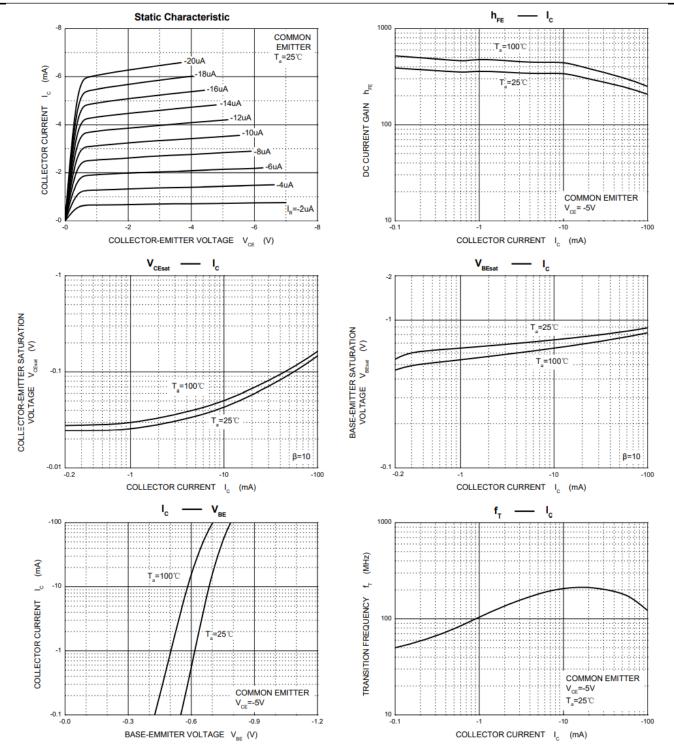
Parameter	Symbols	Test Condition	Limits		Unit
Parameter Symbols		rest Condition	Min	Max	
Collector-base breakdown voltage	V(BR)CBO	IC=-100uA, IE=0	-50		V
Collector-emitter breakdown voltage	V(BR)CEO	IC=-0.1mA, IB=0	-45		V
Emitter-base breakdown voltage	V(BR)EBO	IE=-100uA, IC=0	-5		V
Collector cut-off current	Ісво	VCB=-50V, IE=0		-100	nA
Emitter cut-off current	IEBO	VEB=-5V, IC=0		-100	nA
DC current gain	hFE	VCE=-5V, IC=-1mA	200	1000	
Collector-emitter saturation voltage	VCE(sat)	IC=-100mA, IB=-10mA		-0.30	V
Base -emitter saturation voltage	VBE(sat)	IC=-100mA, IB=-10mA		-1.00	V
Transition frequency	fτ	VCE=-5V, IC=-10mA,f=30MHz	150		MHz

CLASSIFICATION OF hfe(1)

RANK	L	Н
RANGE	200-450	450-1000

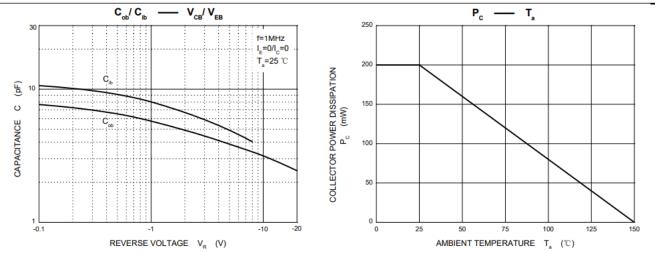
Typical characteristics



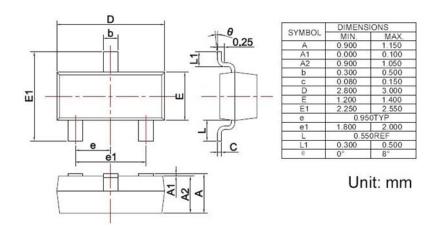


S9015

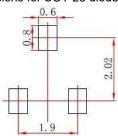




SOT-23 PACKAGE OUTLINE Plastic surface mounted package



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,



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