

Plastic-Encapsulate Transistors(PNP)

General description

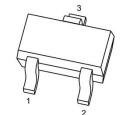
SOT-23 Plastic-Encapsulate Transistors(PNP)

FEATURES

- Complementary to C1815
- Power Dissipation of 200mW
- High Stability and High Reliability
- SOT-23 Small Outline Plastic Package
- Epoxy UL: 94V-0
- Mounting Position: Any

MARKING: BA

SOT-23 Package



- 1. BASE
- 2. EMITTER
- 3. COLLECTOR

Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	Value	Unit
Collector-Base Voltage	Vсво	-50	V
Collector-Emitter Voltage	VCEO	-50	V
Emitter -Base Voltage	VEBO	-5	V
Collector Current-Continuous	Ic	-150	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 (Ratings at 25°C ambient temperature unless otherwise specified).

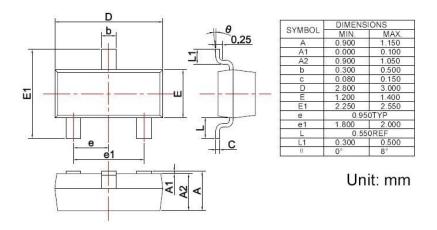
Parameter	Symbols	Test Condition	Limits		Unit
- aramotor	Cymbolo	100t Contaition	Min	Max	O m c
Collector-base breakdown voltage	V(BR)CBO	IC=-10uA, IE=0	-50		V
Collector-emitter breakdown voltage	V(BR)CEO	IC=-1mA, IB=0	-50		V
Emitter-base breakdown voltage	V(BR)EBO	IE=-10uA, IC=0	-5		V
Collector cut-off current	ICEO	VCE=-50V, IE=0		-100	nA
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=-6V, IC=2mA	130	400	
Collector-emitter saturation voltage	VCE(sat)	IC=-100mA, IB=-10mA		-0.30	V
Base -emitter saturation voltage	VBE(sat)	IC=-100mA, IB=-10mA		-1.10	V
Transition frequency	fτ	VCE=-10V, IC=-1mA,f=30MHz	80		MHz

CLASSIFICATION OF hFE

HFE	130-400		
RANK	L	Н	
RANGE	130-200	200-400	

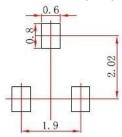


SOT-23 PACKAGE OUTLINE Plastic surface mounted package



Precautions: PCB Design

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



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



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