

SOT-523 Plastic-Encapsulated Transistors

2SA1832 TRANSISTOR (PNP)

FEATURES

Power dissipation

$$P_{CM} : 0.1 \text{ W (Tamb=25°C)}$$

Collector current

$$I_{CM} : -0.15 \text{ A}$$

Collector-base voltage

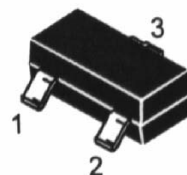
$$V_{(BR)CBO} : -50 \text{ V}$$

Operating and storage junction temperature range

$$T_J, T_{stg} : -55^\circ\text{C to } +150^\circ\text{C}$$

SOT-523

1. BASE
2. EMITTER
3. COLLECTOR



ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -100\mu\text{A}, I_E = 0$	-50			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -1\text{mA}, I_B = 0$	-50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -100\mu\text{A}, I_C = 0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB} = -50\text{V}, I_E = 0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5\text{V}, I_C = 0$			-0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE} = -6\text{V}, I_C = -2\text{mA}$	120		400	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100\text{mA}, I_B = -10\text{mA}$			-0.3	V
Transition frequency	f_T	$V_{CE} = -10\text{V}, I_C = -1\text{mA}$	80			MHz
Collector output capacitance	C_{ob}	$V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$			7	pF

CLASSIFICATION OF $h_{FE(1)}$

Rank	Y	GR
Range	120-240	200-400
Marking	SY	SG

Typical Characteristics

2SA1832

