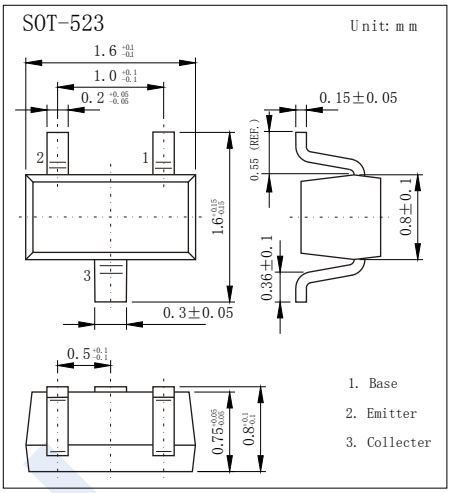
PNP Transistors

2SA1832



■ Features

- High voltage and high current
- Excellent hFE linearity
- Complementary to 2SC4738

■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	-50	V
Collector - Emitter Voltage	V_{CEO}	-50	
Emitter - Base Voltage	V_{EBO}	-5	
Collector Current - Continuous	I_C	-150	mA
Collector Power Dissipation	P_C	100	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	125	℃/W
Junction Temperature	T_J	125	℃
Storage Temperature range	T_{stg}	-65 to 125	

■ Electrical Characteristics Ta = 25℃

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CBO}	I_C= -100 μA, I_E=0	-50			V
Collector- emitter breakdown voltage	V_{CEO}	I_C= -1 mA, I_B=0	-50			
Emitter - base breakdown voltage	V_{EBO}	I_E= -100 μ A, I_C=0	-5			
Collector-base cut-off current	I_{CBO}	V_{CB}= -50 V , I_E=0			-100	nA
Emitter cut-off current	I_{EBO}	V_{EB}= -5V , I_C=0			-100	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-100 mA, I_B=-10mA		-0.1	-0.3	V
Base - emitter saturation voltage	$V_{BE(sat)}$	I_C=-100 mA, I_B=-10mA			-1.2	
DC current gain	h_{FE}	V_{CE}= -6V, I_C= -2mA	70		400	
Collector output capacitance	C_{ob}	V_{CB}= -10V, I_E= 0mA,f=1MHz		4	7	pF
Transition frequency	f_T	V_{CE}= -10V, I_C= -1mA	80			MHz

■ Classification of h_{fe}

Type	2SA1832-O	2SA1832-Y	2SA1832-G
Range	70-140	120-240	200-400
Marking	SO	SY	SG

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■ Typical Characterisitics