



SOT-523 Plastic-Encapsulate Transistors

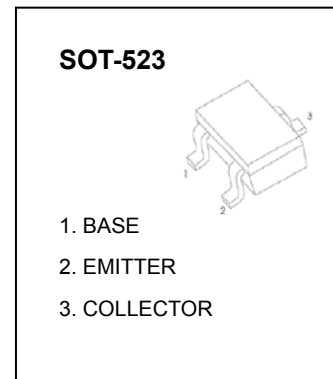
2SA1832 TRANSISTOR (PNP)

FEATURES

- High voltage and high current
- Excellent h_{FE} linearity
- Complementary to 2SC4738

MAXIMUM RATINGS ($T_a=25^{\circ}C$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-50	V
V_{CEO}	Collector-Emitter Voltage	-50	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current -Continuous	-150	mA
P_D	Total Device Dissipation	100	mW
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	125	$^{\circ}C/W$
T_J, T_{stg}	Junction and Storage Temperature	-55 to +125	$^{\circ}C$



ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}C$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V_{CBO}	$I_C=-100\mu A, I_E=0$	-50			V
Collector-emitter breakdown voltage	V_{CEO^*}	$I_C=-1mA, I_B=0$	-50			V
Emitter-base breakdown voltage	V_{EBO}	$I_E=-100\mu A, I_C=0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB}=-50V, I_E=0$			-100	nA
Emitter cut-off current	I_{EBO}	$V_{EB}=-5V, I_C=0$			-100	nA
DC current gain	h_{FE}	$V_{CE}=-6V, I_C=-2mA$	120		400	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-100mA, I_B=-10mA$			-0.3	V
Transition frequency	f_T	$V_{CE}=-10V, I_C=-1mA$	80			MHz
Collector output capacitance	C_{ob}	$V_{CB}=-10V, I_E=0, f=1MHz$		4	7	pF

CLASSIFICATION OF h_{FE}

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