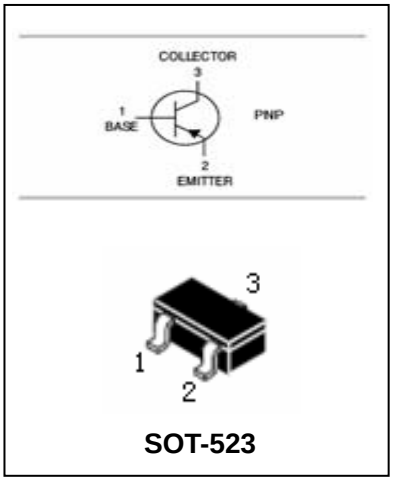
Plastic-Encapsulate Transistors 2SA1832

FEATURES

- High voltage and high current
- Excellent h_{FE} linearity
- High h_{FE}
- Complementary to 2sc4738
- Small package

Lead-free



SOT-523

ORDERING INFORMATION

Type No.	Marking	Package Code
2SA1832	SO/SY/SG	SOT-523

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Symbol	**Parameter**	**Limits**	**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	-150	mA
I_B	Base current	-30	mA
P_C	Collector power dissipation	100	mW
T_{stg}	storage temperature range	-55 to +125	°C
T_j	junction temperature	125	°C

Plastic-Encapsulate Transistors 2SA1832

ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

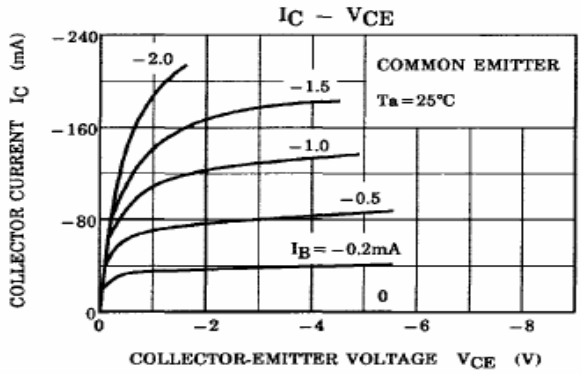
SYMBOL	PARAMETER	CONDITIONS	MIN.	Typ.	MAX.	UNIT
$V_{(BR)CBO}$	Collector-base breakown voltage	I_C=-100μA,I_E=0	-50			
$V_{(BR)CEO}$	Collector- emitter breakown voltage	I_C=-1μA,I_B=0	-50			
$V_{(BR)BEO}$	Emitter-base breakown voltage	I_E=-100μA,I_C=0	-5			
I_{CBO}	Collector cut-off current	I_E=0,V_{CB}=-50V			-0.1	μA
I_{EBO}	Emitter cut-off current	I_C=0,V_{EB}=-5V			-0.1	μA
$h_{FE(1)}$	DC current gain	V_{CE}=-6V,I_C=-2mA	70		400	
$V_{CE(sat)}$	collector-emitter saturation voltage	I_C=-100mA,I_B=-10mA		-0.1	-0.3	V
C_{obo}	Output capacitance	I_E=0,V_{CB}=-10V,f=1MHz		4	7	pF
f_T	transition frequency	I_C=-1mA,V_{CE} =-10V,	80			MHz

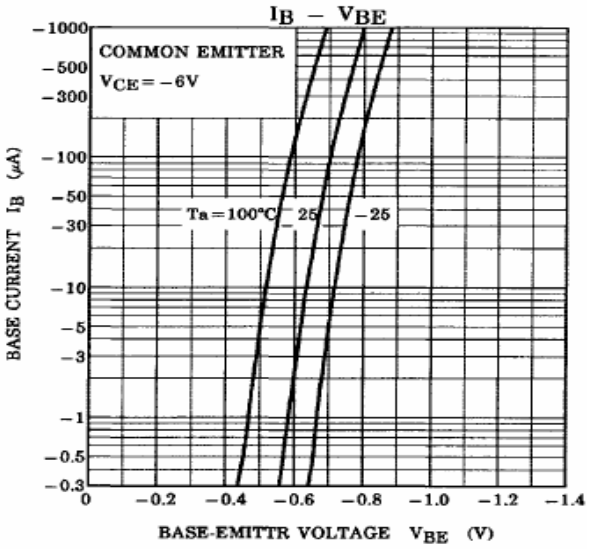
CLASSIFICATION OF $h_{FE(1)}$

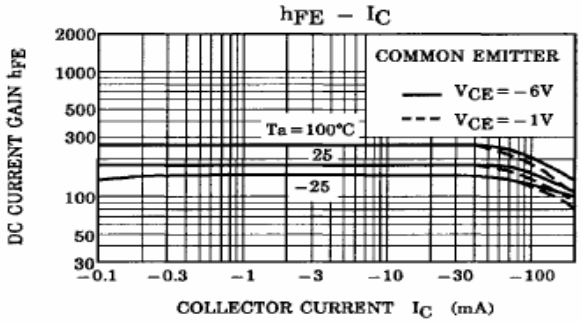
Rang	70-140	120-240	200-400
Marking	SO	SY	SG

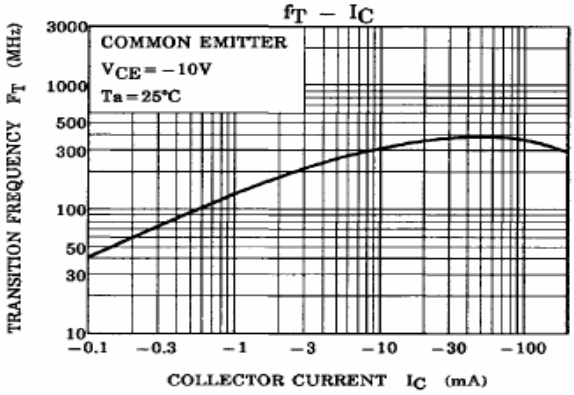
Plastic-Encapsulate Transistors 2SA1832

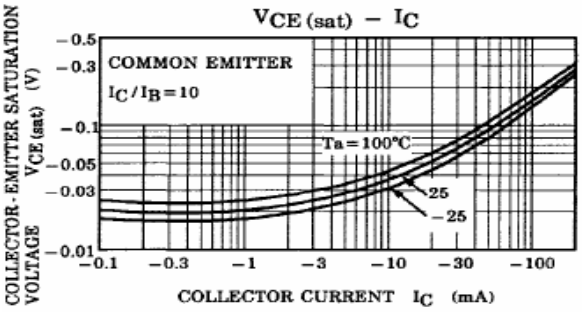
TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

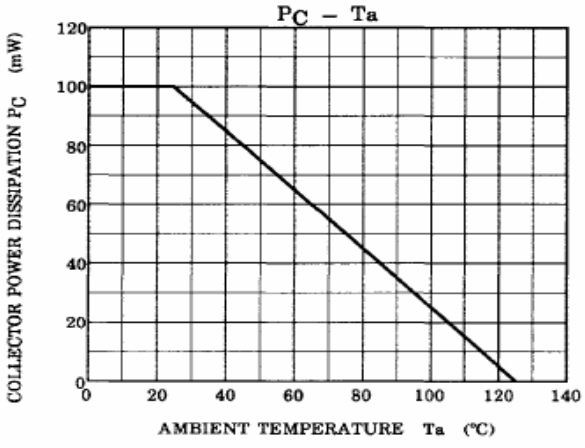


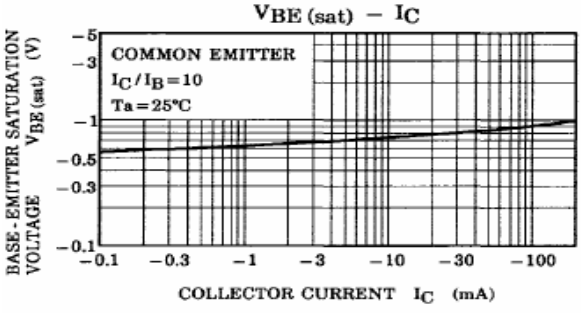








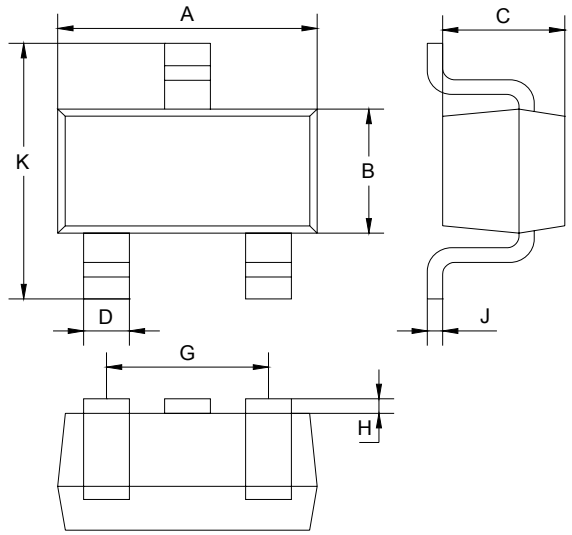




Plastic-Encapsulate Transistors 2SA1832

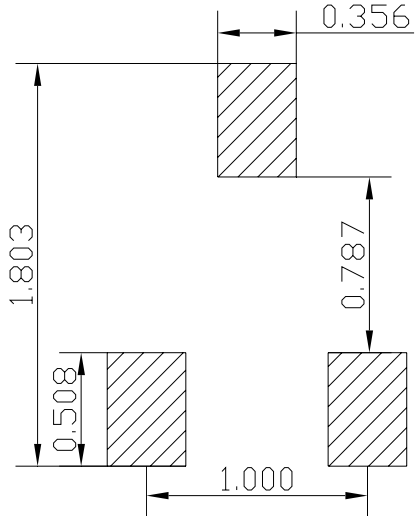
PACKAGE OUTLINE

Plastic surface mounted package SOT-523



SOT-523		
Dim	Min	Max
A	1.5	1.7
B	0.75	0.85
C	0.6	0.8
D	0.15	0.3
G	0.9	1.1
H	0.02	0.1
J	0.1Typical	
K	1.45	1.75
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
2SA1832	SOT-523	3000/Tape&Reel