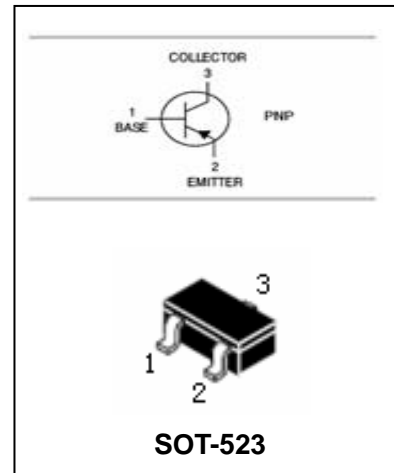


## Plastic-Encapsulate Transistors

## 2SA1832

### FEATURES

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



### ORDERING INFORMATION

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

### MAXIMUM RATING @ $T_a=25^\circ\text{C}$ 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	$^\circ\text{C}$
$T_j$	junction temperature	125	$^\circ\text{C}$



**Plastic-Encapsulate Transistors**

**2SA1832**

**ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN.	Typ.	MAX.	UNIT
$V_{(BR)CBO}$	Collector-base breakown voltage	$I_C=-100\mu A, I_E=0$	-50			
$V_{(BR)CEO}$	Collector- emitter breakown voltage	$I_C=-1\mu A, I_B=0$	-50			
$V_{(BR)BEO}$	Emitter-base breakown voltage	$I_E=-100\mu A, I_C=0$	-5			
$I_{CBO}$	Collector cut-off current	$I_E=0, V_{CB}=-50V$			-0.1	$\mu A$
$I_{EBO}$	Emitter cut-off current	$I_C=0, V_{EB}=-5V$			-0.1	$\mu A$
$h_{FE(1)}$	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  $h_{FE(1)}$**

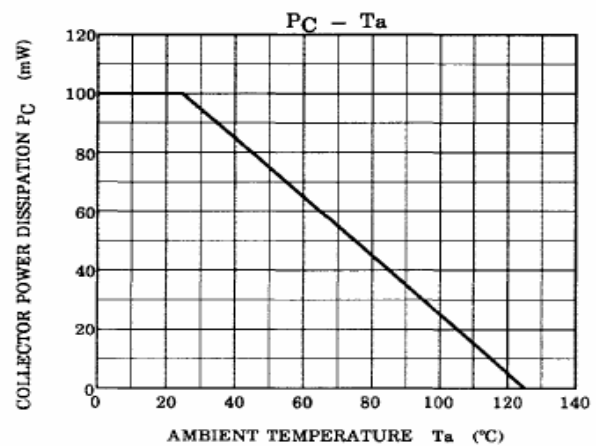
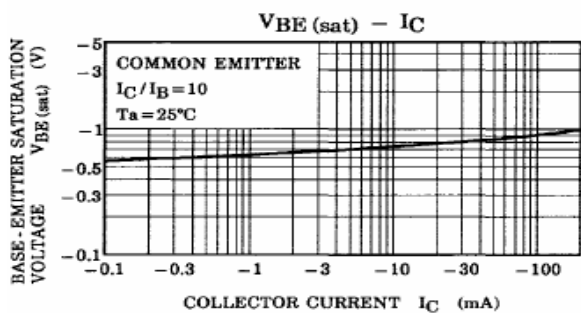
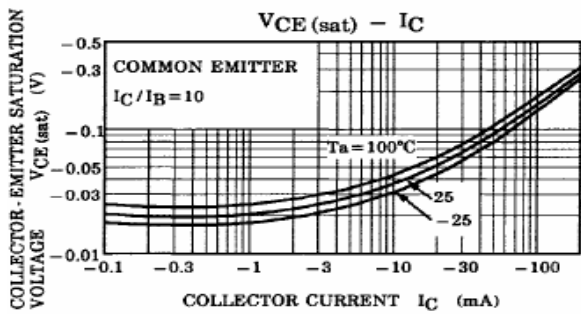
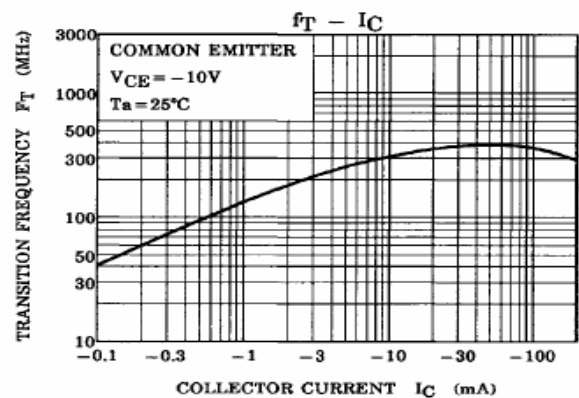
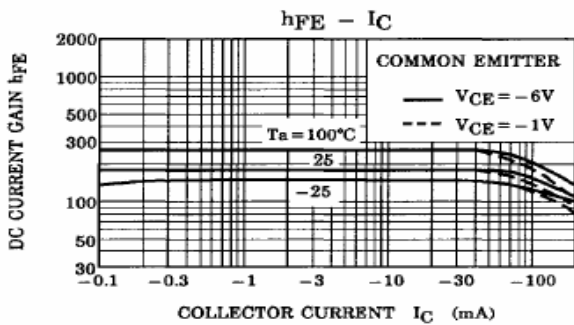
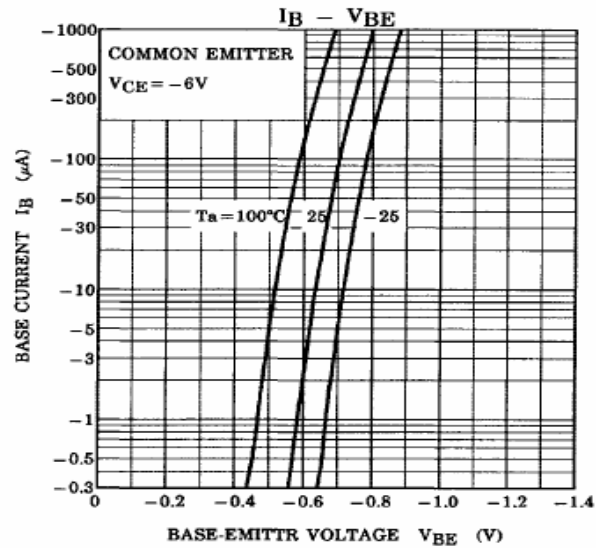
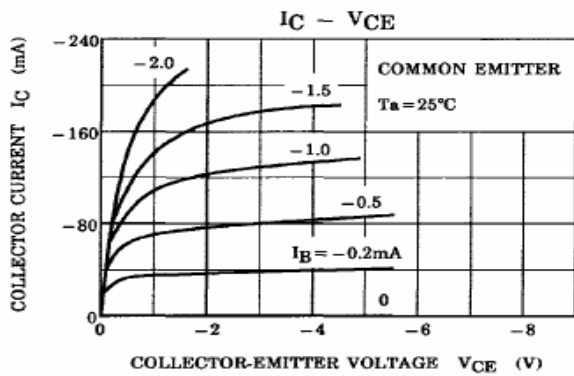
Rang	70-140	120-240	200-400
Marking	SO	SY	SG



# Plastic-Encapsulate Transistors

# 2SA1832

TYPICAL CHARACTERISTICS @  $T_a=25^\circ\text{C}$  unless otherwise specified



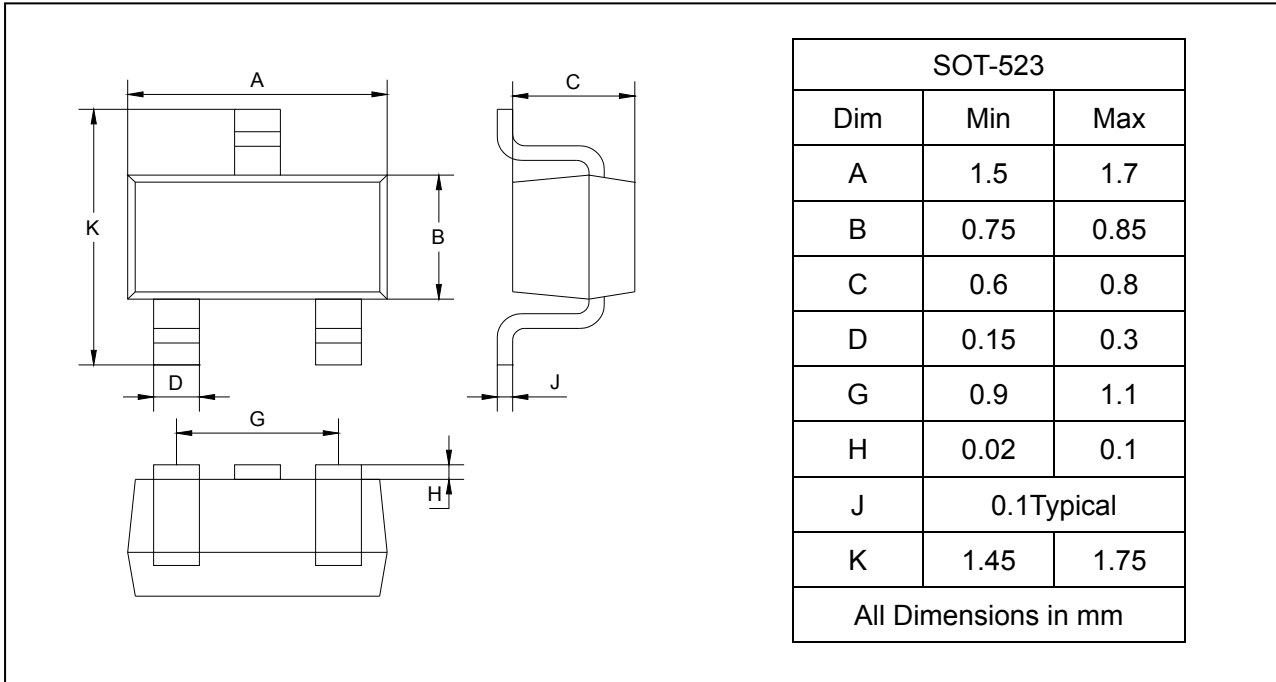
## Plastic-Encapsulate Transistors

## 2SA1832

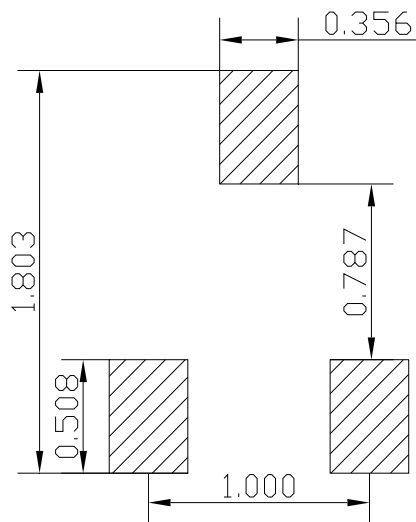
### PACKAGE OUTLINE

Plastic surface mounted package

SOT-523



### SOLDERING FOOTPRINT



Unit : mm

### PACKAGE INFORMATION

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