

# 深圳市晶泰源电子有限公司

## 2SA1662 TRANSISTOR (PNP)

### FEATURES

Complementary to KTC4374

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

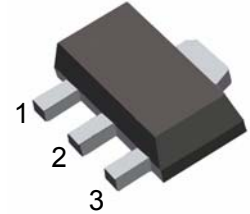
Symbol	Parameter	Value	Units
$V_{CB0}$	Collector-Base Voltage	-80	V
$V_{CEO}$	Collector-Emitter Voltage	-80	V
$V_{EBO}$	Emitter-Base Voltage	-5	V
$I_C$	Collector Current -Continuous	-0.4	A
$P_C$	Collector Power Dissipation	0.5	W
$T_J$	Junction Temperature	150	$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature	-55-150	$^{\circ}\text{C}$

### SOT-89

1. BASE

2. COLLECTOR

3. EMITTER



### ELECTRICAL CHARACTERISTICS ( $T_{amb}=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-1\text{mA}, I_E=0$	-80			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-10\text{mA}, I_B=0$	-80			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-1\text{mA}, I_C=0$	-5			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=-80\text{V}, I_E=0$			-0.1	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=-5\text{V}, I_C=0$			-0.1	$\mu\text{A}$
DC current gain	$h_{FE(1)}$	$V_{CE}=-2\text{V}, I_C=-50\text{mA}$	70		240	
	$h_{FE(2)}$	$V_{CE}=-2\text{V}, I_C=-200\text{mA}$	40			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-200\text{mA}, I_B=-20\text{mA}$			-0.4	V
Base-emitter voltage	$V_{BE}$	$V_{CE}=-2\text{V}, I_C=-5\text{mA}$	-0.55		-0.8	V
Transition frequency	$f_T$	$V_{CE}=-10\text{V}, I_C=-10\text{mA}$		120		MHz
Collector output capacitance	$C_{ob}$	$V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$		14		pF

### CLASSIFICATION OF $h_{FE(1)}$

Rank	O	Y
Range	70-140	120-240
Marking	FO	FY