

### 2SB1424 TRANSISTOR (PNP)

#### FEATURES

Power dissipation

$P_{CM}$ : 600 mW ( $T_{amb}=25^{\circ}C$ )

Collector current

$I_{CM}$ : -3 A

Collector-base voltage

$V_{(BR)CBO}$ : -20 V

Operating and storage junction temperature range

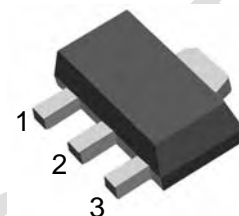
$T_J, T_{stg}$ :  $-55^{\circ}C$  to  $+150^{\circ}C$

#### SOT-89

1. BASE

2. COLLECTOR

3. EMITTER



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

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-50\mu A, I_E=0$	-20			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1mA, I_B=0$	-20			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-50\mu A, I_C=0$	-6			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=-20V, I_E=0$			-0.1	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=-5V, I_C=0$			-0.1	$\mu A$
DC current gain	$h_{FE(1)}$	$V_{CE}=-2V, I_C=-100mA$	120		390	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-2A, I_B=-100mA$			-0.5	V
Transition frequency	$f_T$	$V_{CE}=-2V, I_C=-500mA, f=100MHz$		240		MHz
Collector output capacitance	$C_{ob}$	$V_{CB}=-10V, I_E=0, f=1MHz$		35		pF

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

Rank	Q	R
Range	120-270	180-390
Marking	AEQ	AER