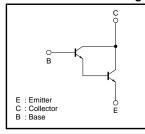
# High-gain Amplifier Transistor (32V, 0.3A) **2SC2062S**

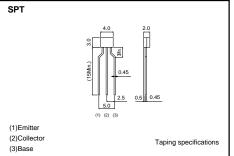
#### Features

- 1) Darlington connection for a high hFE.
- (DC current gain = 5000 (Min.) at  $V_{CE}$  = 3V, Ic = 0.1A.) 2) High input impedance.

#### ●Absolute maximum ratings (Ta=25°C)



### •External dimensions (Unit : mm)



#### Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	Vсво	40	V
Collector-emitter voltage	VCES	32	V
Emitter-base voltage	Vebo	12	V
Collector current	lc	0.3	A
Collector power dissipation	Pc	0.3	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

#### •Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	40	-	-	V	Ic=100μA
Collector-emitter breakdown voltage	BVCES	32	-	-	V	Ic=10mA
Emitter-base breakdown voltage	ВVево	12	-	-	V	Iε=100μA
Collector cutoff current	Ісво	-	-	0.1	μA	Vcb=30V
Emitter cutoff current	Іево	-	-	0.1	μA	VEB=12V
DC current transfer ratio	hfe	10000	-	-	-	VcE/Ic=3V/0.1A
Collector-emitter saturation voltage	VCE(sat)	-	-	1.4	V	Ic/IB=200mA/0.2mA
Transition frequency	fт	-	200	-	MHz	Vce=5V , Ie= -10mA , f=100MHz *
Output capacitance	Cob	-	2.5	-	pF	Vcb=10V , IE=0A , f=1MHz

\* Transition frequency of the device.

#### Packaging specifications and here

Туре	2SC2062S
Package	SPT
hfe	С
Code	TP
Basic ordering unit (pieces)	5000

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# 2SA1759

# Transistors

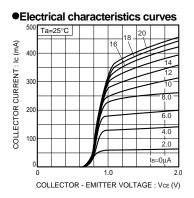


Fig.1 Typical output characteristics (I)

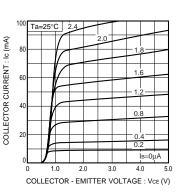


Fig.2 Typical output characteristics ( II )

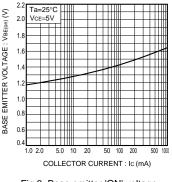
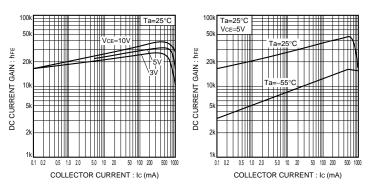


Fig.3 Base emitter 'ON' voltage vs. collector current



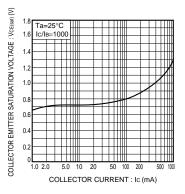
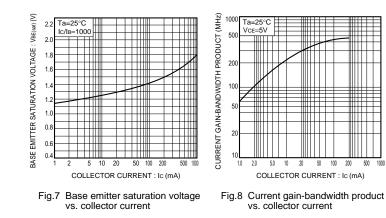


Fig.4 DC current gain vs. collector current (I) Fig.5 DC current gain vs. collector current (II)

Fig.6 Collector emitter saturation voltage vs. collector current



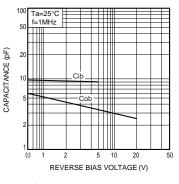


Fig.9 Capacitance vs. reverse bias voltage

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