# PNP general purpose transistor **sst6839**

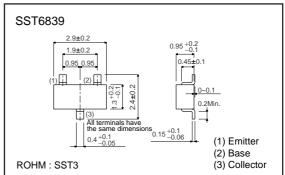
### Features

- 1) BVcEo < 40V (Ic = -1mA)
- 2) Complements the SST6838.

# ● Package, marking and packaging specifications

Part No.	SST6839
Packaging type	SST3
Marking	RFQ
Code	T116
Basic ordering unit (pieces)	3000

# ●External dimensions (Unit : mm)



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

Parameter	Symbol	Limits	Unit
Collector-base voltage	Vcвo	-50	V
Collector-emitter voltage	Vceo	-40	V
Emitter-base voltage	VEBO	-5	V
Collector current	lc	-0.2	Α
Collector power dissipation	Pc	0.2	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	-50	-	-	V	Ic=-10μA	(Ta= -40°C to +125°C)
Collector-emitter breakdown voltage	BVceo	-40	-	-	V	Ic=-1mA	(Ta= -40°C to +125°C)
Collector cutoff current	Ісво	_	-	-0.5	μА	Vcb= -30V	(Ta=85°C)
		_	-	-5		Vcb= -30V	(Ta=125°C)
Emitter cutoff current	ІЕВО	_	-	-0.5	μА	VE <sub>B</sub> = -4V	(Ta=85°C)
		_	-	-5		VE <sub>B</sub> = -4V	(Ta=125°C)
Collector-emitter saturation voltage	VCE(sat)	_	-	-0.5	V	Ic/I <sub>B</sub> = -100mA/-10mA	(Ta=85°C)
		_	-	-0.7		Ic/I <sub>B</sub> = -100mA/-10mA	(Ta=125°C)
DC current transfer ratio	hFE1	100	-	-	-	VcE/Ic= -5V/-1mA	(Ta= -40°C to +25°C)
		_	-	800		Vce/Ic= -5V/-1mA	(Ta=85°C)
		_	-	1000		VcE/Ic= -5V/-1mA	(Ta=125°C)
DC current transfer ratio	hFE2	100	-	-	-	Vce/lc= -5V/-100mA	(Ta= -40°C to +25°C)
Transition frequency	f⊤	_	140	-	MHz	VcE= -12V , Ic= -2mA , f= 100MHz	(Ta=25°C)
Collector output capacitance	Cob	_	3.5	-	pF	Vcb= -12V , IE= 0A , f= 1MHz	(Ta=25°C)
Emitter input capacitance	Cib	_	17	-	pF	V <sub>EB</sub> = -0.5V , I <sub>C</sub> = 0A , f= 1MHz	(Ta=25°C)

### Electrical characteristic curves

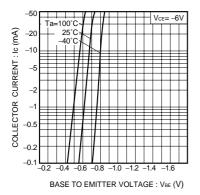


Fig.1 Grounded emitter propagation characteristics

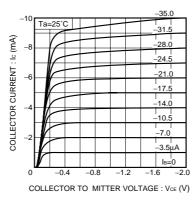


Fig.2 Grounded emitter output characteristics (I)

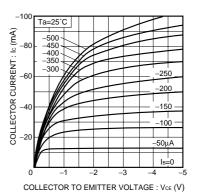


Fig.3 Grounded emitter output characteristics (II)

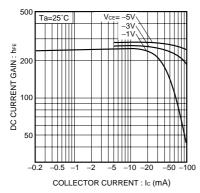


Fig.4 DC current gain vs. collector current (I)

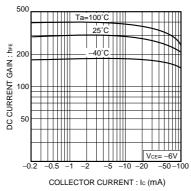


Fig.5 DC current gain vs. collector current (II)

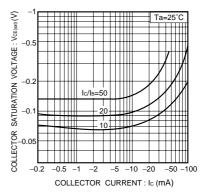


Fig.6 Collector-emitter saturation voltage vs. collector current (I)

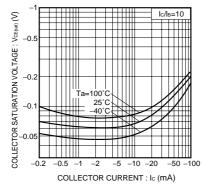


Fig.7 Collector-emitter saturation voltage vs. collector current (II)

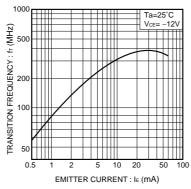


Fig.8 Gain bandwidth product vs. emitter current

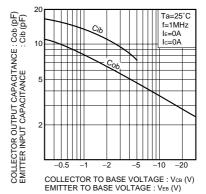


Fig.9 Collector output capacitance vs. collector-base voltage Emitter inputcapacitance vs. emitter-base voltage

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